

WATER QUALITY AND PHYTOPLANKTON OF THE TIDAL POTOMAC RIVER, AUGUST-NOVEMBER 1983

by J.C. Woodward, P.D. Manning, D.J. Shultz and V.S. Andrle



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CONVERSION FACTORS

For use of readers who prefer to use metric (SI) units, conversion factors for terms in this report are listed below:

<u>Multiply Inch-Pound Unit</u>	<u>By Length</u>	<u>To obtain SI Unit</u>
inch (in)	2.54 0.0254	centimeter (cm) meter (m)
foot (ft)	30.48 0.3048	centimeter (cm) meter (m)
mile (mi) nautical mile (nt mi)	1.6093 1.8530	kilometer (km) kilometer (km)
	<u>Volume</u>	
gallon (gal) cubic foot (ft ³)	3.785 0.02832	liter (L) cubic meter (m ³)
	<u>Flow</u>	
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)
	<u>Temperature</u>	
degrees Fahrenheit (F °)	(F ° - 32) x .555	degrees Celcius (C °)
degrees Celcius (C °)	(C ° x 1.8) + 32	degrees Fahrenheit (F °)

Nitrogen and phosphorus species conversion

<u>To convert mg/L of:</u>	<u>To mg/L of:</u>	<u>Multiply by:</u>
NH ₄	N	0.7765
NO ₃	N	0.2258
NO ₂	N	0.3045
N	NH ₄	1.289
N	NO ₃	4.429
N	NO ₂	3.284
PO ₄	P	0.3872
P	PO ₄	2.583

Factors for conversion to equivalent-weight units

Elements and species Concentration in mg/L	To convert to milliequivalents/liter multiply by	To convert to millimoles/liter multiply by	To convert to microgram-atom/liter multiply by
Alkalinity (As Ca CO ₃)	0.0198	0.01998	19.98
Ammonium (NH ₄ ⁺)	.05544	.05544	55.44
Bicarbonate (HCO ₃ ⁻)	.01639	.01639	16.39
Calcium (Ca ⁺²)	.04990	.02495	24.95
Chloride (Cl ⁻)	.02821	.02821	28.21
Fluoride (F ⁻)	.05264	.05264	52.64
Magnesium (Mg ⁺²)	.08226	.04113	41.13
Nitrate (NO ₃ ⁻)	.01613	.01613	16.13
Nitrite (NO ₂ ⁻)	.02174	.02174	21.74
Nitrogen (N)	.07139	.07139	71.39
Phosphate (PO ₄ ⁻³)	.03159	.01053	10.53
Phosphorus (P)	.03229	.03229	32.29
Potassium (K ⁺)	.02557	.02557	25.57
Silica (SiO ₂)	-----	.01644	16.44
Sodium (Na ⁺¹)	.04350	.04350	43.50
Sulfate (SO ₄ ⁻²)	.02082	.01041	10.41

Equations for converting concentrations in milligrams per liter (mg/L) to milliequivalents per liter and millimoles per liter are presented by Hem (1970). An equation for converting milligrams per liter to microgram-atoms per liter ($\mu\text{g-at/L}$) is presented below.

concentration in mg/L \times 1000 \div formula weight = concentrations in $\mu\text{g-at/L}$

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ABSTRACT

In the summer of 1983, a prolonged blue-green algal bloom, consisting predominantly of Microcystis, occurred in the Potomac River downstream of Washington, D.C. Ten longitudinal sampling trips were made between August 3 and November 9, 1983, primarily in the freshwater tidal Potomac River between Memorial Bridge and Quantico, Va. Samples were depth-integrated and composited across the river at each major station and analyzed for dissolved and total nitrogen species, dissolved and total phosphorus species, dissolved silica, chlorophyll-a, pheophytin, and suspended sediment. In addition, phytoplankton were enumerated and identified. Point samples were taken for chlorophyll-a and pheophytin, and measurements were made of dissolved oxygen, pH, conductance, temperature, and Secchi disc transparency. Some supplementary data are presented from points between major stations and in tributaries to the tidal Potomac River.

INTRODUCTION

The U.S. Geological Survey is conducting an interdisciplinary study of the tidal Potomac River and Estuary in order to understand the hydrodynamic, chemical, and biological processes and their interactions in a tidal river-estuarine system. Field efforts of the PES (Potomac Estuary Study) began in August 1977 (Smith and Herndon, 1979), and continued into January, April, and August 1978 (Smith and Herndon, 1980a, 1980b, and 1980; Cole and Alpine, 1980). Routine sampling of the Potomac River and Estuary began in 1979; data reports that present results of this sampling have been published for 1979-81 (Blanchard and Hahl, 1981; Blanchard and others, 1982a and 1982b).

This report presents nutrient, water-quality, and phytoplankton data from the tidal river and upper transition zone of the Potomac River and Estuary for August through November 1983. The purpose of the data collection was to document the chemical and physical conditions associated with a phytoplankton bloom that occurred during this period. The data are organized by sampling trips, from the upstream-most station to the downstream-most station. In addition to sampling in the Potomac River, a few water-quality measurements, chlorophyll, pheophytin, and phytoplankton samples were taken from selected tributaries of the Potomac River.

The field work and chlorophyll analyses presented here could not have been done without the assistance of Kris Gould. We thank R. A. Baltzer and R. S. Regan for providing tide stage data. We would also like to

thank Bob Happ, Stephen Blanchard, and particularly Jonathan Sell, all of whom acted as boat captain at various times and enabled us to conduct this field work in spite of equipment and weather problems.

Description of Study Area

The tidal Potomac River and Estuary can be divided into three distinctly different hydrodynamic zones (fig. 1). The tidal river zone contains fresh water and is strongly influenced by river flow but also experiences tides and the associated cyclical reversals of flow. The transition zone contains both fresh and saline waters and is influenced by riverine and tidal flows. The estuarine zone contains saline water and is most strongly influenced by tidal flow. Data presented here was collected from the tidal river zone and upper transition zone.

Sampling stations are shown in figures 2 and 3. Table 1 lists the stations in downstream order by name, the station identification number and the distance from the mouth of the river in kilometers. The station identification numbers are compatible with those used in basic data reports on the Potomac River for 1979, 1980, and 1981 (Hahl and Blanchard, 1981; Blanchard and others, 1982a and 1982b). The river distances, in km, are measured from the center of a line drawn between Smith Point and Point Lookout at the mouth of the river.

Intermediate stops at navigational buoys were made between stations for collection of supplementary chlorophyll and pheophytin samples and light penetration data. These locations are included in table 1 and are identified by buoy number rather than by station name. If two buoy numbers are shown, sampling location was mid-way between them. Locations of tributary sampling sites are shown on figure 2 and are listed in table 2.

METHODS OF SAMPLE COLLECTION

With the exception of Chain Bridge, each major station consisted of two to four verticals on a transect across the river. The number of verticals depended on the width of the river. Transects were divided into segments using an equal area technique, and sampling verticals were located at the centroid of each segment. At Chain Bridge, the main channel is a narrow canyon (49 meters wide) that constricts flow and insures thorough mixing. Consequently, only a single sample from the channel center was needed at this station. The Potomac River at Alexandria has two channels separated by an extensive area of shallow water. These two channels were treated as separate stations: Alexandria, Virginia channel, and Alexandria, Maryland channel.

Samples for nutrient, biological, and sediment analyses are depth-integrated and composited samples. They were collected with an open, vented bottle as described in Blanchard and others (1982a). A depth-integrated water sample was collected at each of the verticals composing a station. The water was composited in a churn splitter, and subsamples were removed for nutrient, sediment and chlorophyll analyses, and for phytoplankton enumeration and identification.

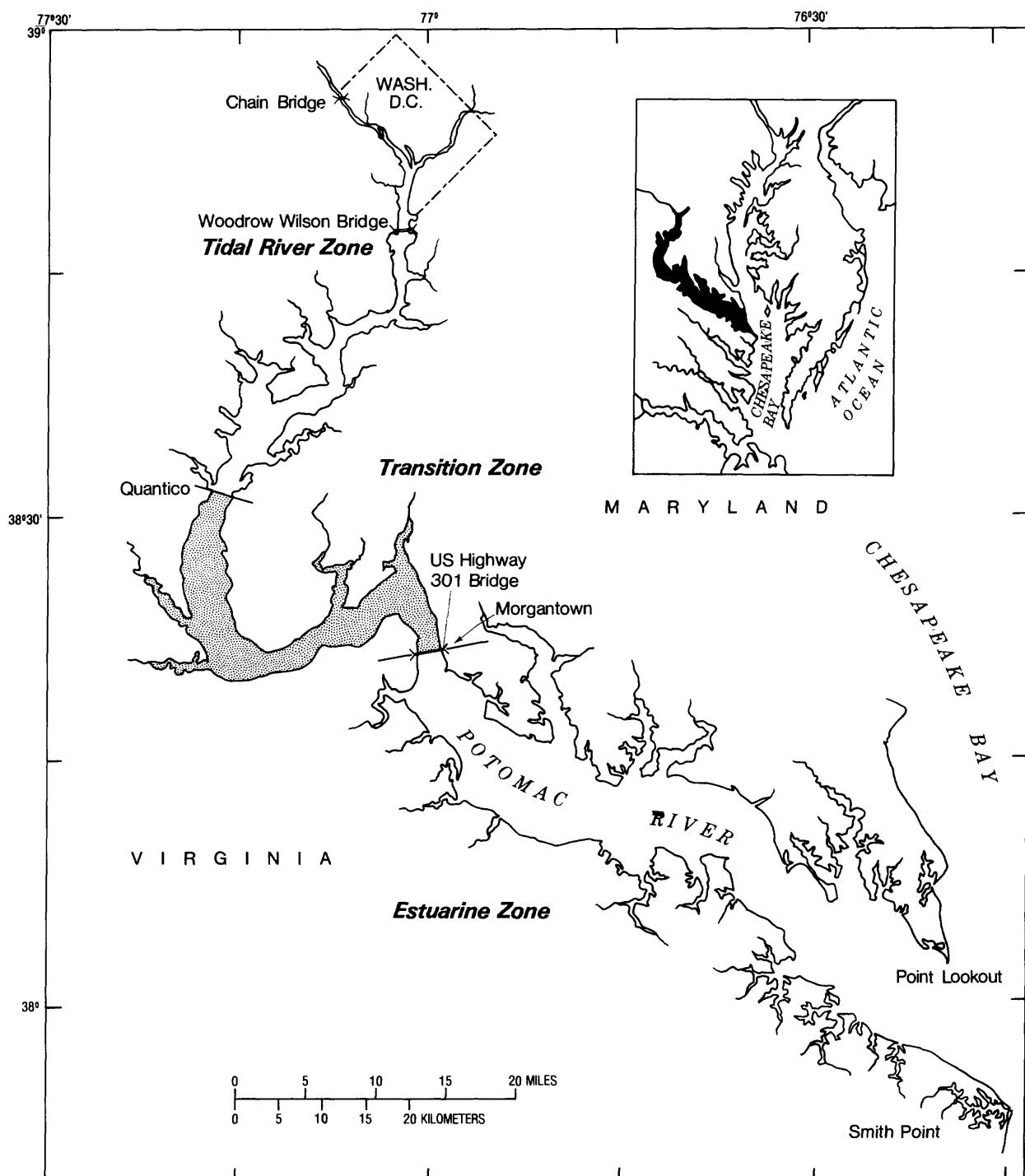


Figure 1.--Tidal Potomac River and Estuary.

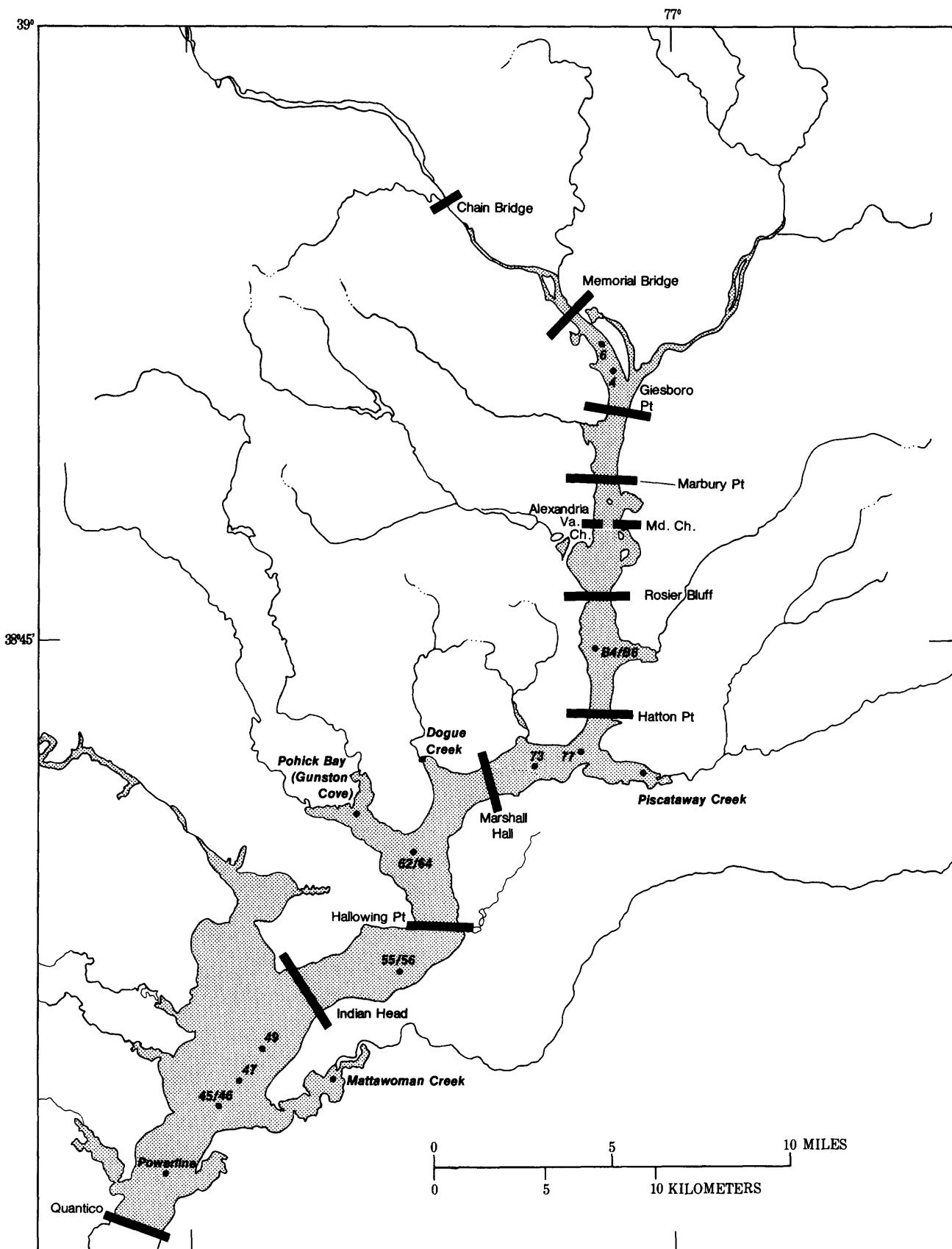


Figure 2.--Tidal river zone showing sampling stations. Bars indicate major stations, and dots indicate sampling locations between major stations and in tributaries.

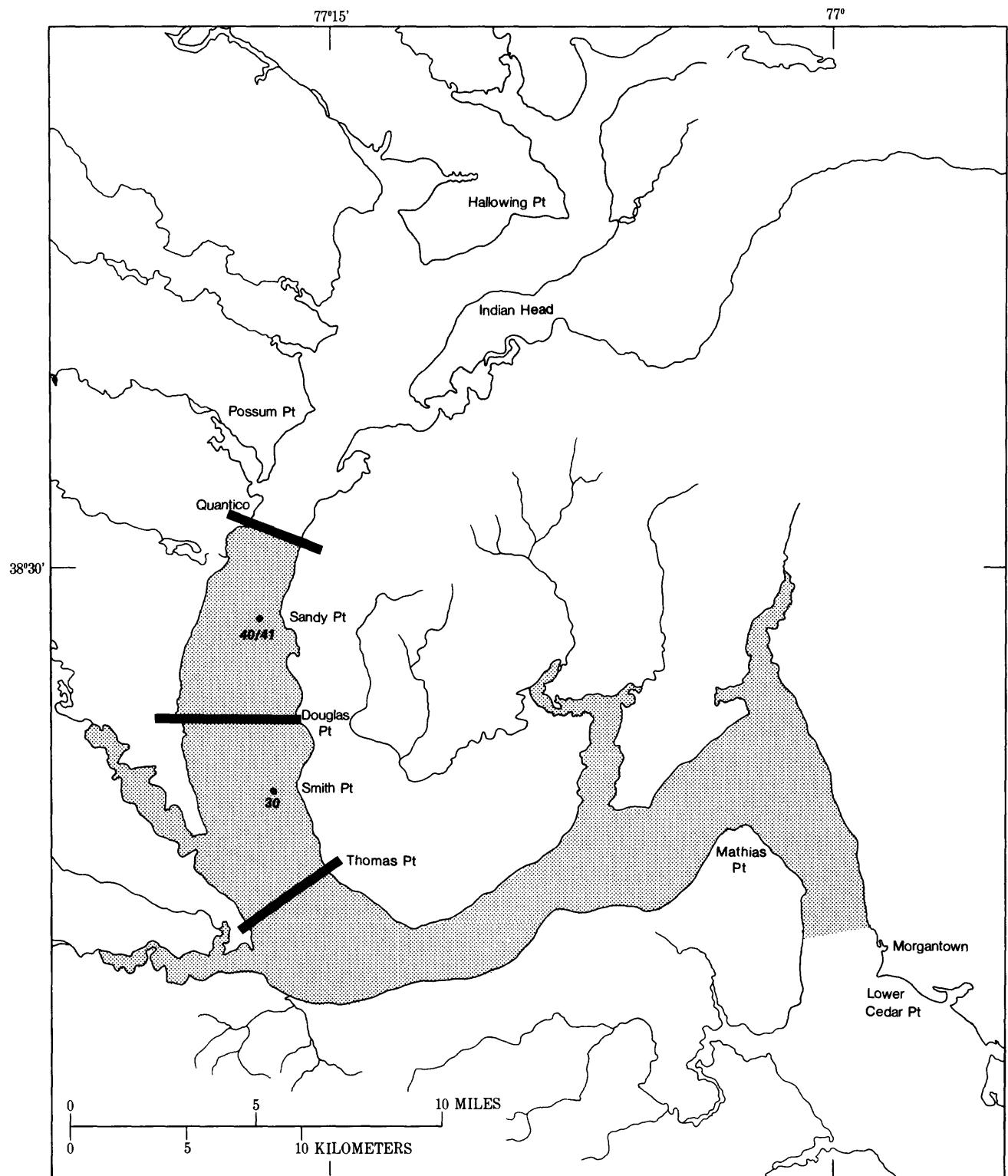


Figure 3.--Transition zone showing sampling stations. Bars indicate major stations, and dots indicate sampling locations between major stations.

Table 1.--Station numbers and locations

Station number	Station name Potomac River at:	Station abbreviation	Distance from river mouth (kilometers)
01646580	Chain Bridge at Washington, D.C.	CHN	187.2
385315077031800	Memorial Bridge, Washington, D.C.	MEM	179.5
385205077015500	Buoy #6	--	176.5
385138077014000	Buoy #4	--	175.0
385039077012600	Giesboro Point Washington, D.C.	GES	173.7
384852077020500	Marbury Point, Washington, D.C.	MAR	170.4
01652590	Alexandria, Va. ¹ / (Maryland and Virginia channels)	ALEXAND Md Va	168.0
384605077015800	Rosier Bluff, Md.	ROS	165.6
384420077021500	Buoy #84/86	--	162.5
384318077020300	Hatton Point, Md.	HAT	160.0
384220077025500	Buoy #77	--	157.0
384150077041000	Buoy #73	--	155.5
384136077054600	Marshall Hall, Md.	MHL	151.0
384040077073000	Buoy #62/64/66	--	148.0
383818077072800	Hallowing Point, Va.	HAL	144.0
383645077082500	Buoy #55/56	--	141.5
01655480	Indian Head, Md.	IND	138.9
383500077124000	Buoy #49	--	134.0
383415077132500	Buoy #47	--	132.0
383330077141000	Buoy #45/46	--	130.0
383210077155000	Powerlines	--	127.5
0168710	Quantico, Va.	QNT	125.6
382855077171000	Buoy #40/41	--	120
382640077159900	Douglas Point, Md.	DP	116.7
382440077160500	Buoy #30	--	112.0
382305077153000	Thomas Point, Md.	TP	108.0

¹/The Alexandria, Va. cross-section has a channel on the Virginia side of the river separated by a tidal flat from the channel on the Maryland side of river. The Virginia and Maryland channels were sampled as separate stations.

Table 2.--Tributary sampling locations

Station number	Station name	Distance from river mouth (kilometers to confluence of the tributary and the Potomac River)
384155077010000	Piscataway Creek, Md.	158.0
384210077074000	Dogue Creek, Va.	150.0
384030077093000	Gunston Cove, Va. (Pohick Bay)	147.0
383430077103000	Mattawoman Creek, Md.	133.0

Point measurements of dissolved oxygen, temperature, conductivity, and pH were made at each vertical using a Hydrolab¹/4041 water-quality measurement system. These measurements were made at a minimum of three depths, 1-foot from the surface, approximately mid-depth, and 1.5 feet from the bottom. On some sampling dates, point chlorophyll and pheophytin samples were also collected at these depths. Normally, a submersible pump and a flow-through cell containing the Hydrolab sensors was used. Point chlorophyll and pheophytin samples were collected from the outflow of the flow-through cell. On several trips the submersible pump could not be used because of generator problems; at these times, the Hydrolab sonde was lowered overboard to make *in situ* measurements. Previous unpublished studies have shown that the *in situ* and the pumping method give comparable results. Water transparency was measured by a Secchi disk.

Prior to this study, a systematic problem with Hydrolab 4041 reference electrodes was noted, which resulted in pH values that were lower than values obtained using other pH instruments. The manufacturer suggested refilling the cavity of the reference electrode with a pH 7 buffer solution made from a 3 M KCl solution rather than from deionized water. This procedure was followed and all pH measurements in this report were made with this new buffer solution. Fifty-eight duplicate field pH measurements ranging from 7.4 to 9.2 were made with the Hydrolab 4041 pH electrodes and with an Orion pH meter. The Orion instrument typically gave values 0.1 pH unit (range 0.0 to 0.2) higher than that measured by the Hydrolab. This was verified with a paired-differences test ($p < 0.01$), which rejected the null hypothesis $\mu_{\text{Orion}} - \mu_{\text{Hydrolab}} = 0.0$. This problem with Hydrolab pH data should be considered when using the data in this report.

METHODS OF SAMPLE ANALYSIS

Filtration of samples

Dissolved material is operationally defined as substances in a water sample that will pass through a 0.45μ (micron) filter. All samples analyzed for dissolved constituents were passed through a 142 mm diameter, 0.45μ Millipore type HA filter using a peristaltic pump. Filters were previously rinsed with 500 mL of sample water.

Nutrients and sediment

Concentrations of dissolved and total nitrogen species, dissolved and total phosphorus species and dissolved silica were determined at the Atlanta Central Water Quality Laboratory of the U.S. Geological Survey by methods described by Skougstad and others (1979). Sediment concentrations were determined at the Sediment Laboratory of the U.S. Geological Survey at Harrisburg, Pennsylvania, by methods described by Guy (1962).

¹/Mention of brand names in this report is for identification purposes and does not constitute endorsement by the U.S. Geological Survey.

PON (particulate organic nitrogen) is calculated by subtracting the dissolved Kjeldahl nitrogen from total Kjeldahl nitrogen. Commonly, the dissolved Kjeldahl nitrogen concentration exceeds the total Kjeldahl nitrogen value, which results in a negative PON. This error is probably introduced through the total Kjedahl analysis, which may exhibit more variability than other closely related analyses. Despite the apparent problems, the results of the analyses for total and dissolved Kjeldahl nitrogen are included in this report (table 6). Because calculated values of PON are subject to two sources of error, these are not included in this report.

Chlorophyll and pheophytin

Chlorophyll and pheophytin were analyzed by a modification of the fluorometric method of Strickland and Parsons (1972) with 90-percent acetone as the extractant. The field and laboratory methods used are described in Blanchard and others (1982b). Some pheophytin values are reported as negative numbers in this report. The equations used to calculate the pheophytin are sensitive to slight errors in reading the analog meter of the fluorometer. If pheophytin concentrations are near zero, these slight errors may result in a calculated pheophytin concentration that is slightly negative. The convention is to report these negative numbers rather than to show them as zero.

The precision of chlorophyll extractions of replicate samples from the blue-green alga Microcystis bloom that occurred in the Potomac River was not as good (standard error range = 13 to 17 percent) as replicate extractions from phytoplankton populations sampled in 1980 and 1981 (standard error range = 1 to 4 percent). Methanol extractions were made to check whether the acetone extraction of chlorophyll from the Microcystis colonies was complete. As routine DICOMP samples were collected on October 27 and November 9, an extra aliquot was withdrawn, filtered and immediately frozen using dry ice. In the laboratory, 8 mL of methanol was pipetted into the sample containers. After allowing 1.5 hours for extraction in a refrigerator, the methanol was evaporated, under vacuum, at 30 °C (Marker, 1972). When evaporation was complete, 15 mL of 90-percent acetone was added to the sample container, the sample was thoroughly shaken, filtered, and analyzed on a Turner Design fluorometer. Chlorophyll concentrations of acetone-extracted samples from the Microcystis bloom were about 30 percent lower than those from methanol extracted samples. Samples from areas of the river not affected by the Microcystis bloom, however, showed the opposite effect, with methanol-extracted chlorophyll concentrations averaging 30 percent lower than those from acetone extraction. Pheophytin concentrations did not show effects relative to the extraction technique.

Alpine (USGS, personal commun., 1979) found incomplete methanol extraction of chlorophyll from diatom populations unless the samples were ground or were buffered with MgCO₃ (0.1 g/L). Water was collected from Quantico, where Microcystis was present, and from Marshall Hall, where green algae and

diatoms were present. Five replicate samples from each area were extracted by the following procedures:

1. Filter frozen; extracted 3 days later using 10 mL methanol for 1.5 hours.
2. Filter frozen; extracted 3 days later using 10 mL methanol plus MgCO₃ for 1.5 hours.
3. Filter and immediately extracted with 15 mL methanol plus MgCO₃ for 36 hours.
4. Filter and immediately extracted with 15 mL 90-percent acetone for 36 hours.
5. Filter and immediately extracted with 15 mL 90-percent acetone plus MgCO₃ for 36 hours.

After extraction, the methanol samples were evaporated as described previously. MgCO₃ buffered 90-percent acetone was added to samples that had contained buffered methanol and 90-percent acetone alone was added to samples that had contained pure methanol. Methanol- and acetone-extracted samples were filtered and analyzed using a Turner Design fluorometer.

An analysis of variance was used to determine whether the means were significantly different ($p < .01$) at these locations for the five treatments (table 3). There was no significant difference between the means of chlorophyll or pheophytin concentrations of samples extracted with buffered or nonbuffered methanol or extracted with buffered or nonbuffered 90-percent

acetone. Also, there was no significant difference between the means of chlorophyll or pheophytin concentrations when the filters were frozen and subsequently extracted with methanol for 1.5 hours or were immediately put into methanol for 36 hours. However, there was a significant difference between the means of chlorophyll concentrations of samples extracted in 90-percent acetone and those extracted in methanol. Samples from the area dominated by Microcystis (Quantico) consistently had lower chlorophyll concentrations when extracted with 90-percent acetone than with methanol. In contrast, samples from the diatom and green algae population (Marshall Hall) had higher chlorophyll concentrations when extracted with 90-percent acetone than with methanol. Thus, the trends noted on October 27 and November 9 are supported by this experiment, and chlorophyll concentrations in areas dominated by Microcystis are probably 20 to 40 percent lower than if the samples had been extracted by methanol.

Phytoplankton Enumeration and Identification

Phytoplankton enumeration and identification was done by inverted microscope examination. Each 250 mL sample, preserved with Lugol's solution, was shaken gently for two minutes to resuspend settled organisms. Five mL was pipetted into a 10 mL counting chamber, with a base plate of coverglass thickness, and allowed to settle overnight.

Table 3.--Comparison of methanol-extracted and acetone-extracted chlorophyll and pheophytin concentrations from an area with blue-green algae and from an area with diatoms and green algae

[chl is chlorophyll; pheo is pheophytin]

Location	Aliquot number	Filter frozen				Filter not frozen			
		Methanol only		Methanol plus MgCO ₃		Acetone plus only		Acetone plus MgCO ₃	
		chl	pheo	chl	pheo	chl	pheo	chl	pheo
Marshall Hall (Diatoms and green algae)	1	4.0	3.3	3.7	3.0	4.1	3.2	5.0	3.6
	2	4.2	3.0	4.3	3.1	4.2	3.0	4.8	2.4
	3	4.2	2.3	4.0	3.2	4.1	3.2	4.6	3.0
	4	4.4	2.9	4.2	3.1	4.3	3.3	4.6	2.8
	5	4.3	3.0	3.9	2.7	4.0	3.3	4.4	3.4
Quantico (Microcystis only)	1	23.2	4.2	20.6	4.3	24.4	5.9	22.3	3.8
	2	24.4	3.7	21.5	3.7	24.1	5.5	20.3	4.9
	3	22.9	2.6	24.4	5.2	23.2	4.2	20.9	4.6
	4	24.9	2.8	23.5	4.4	24.6	3.4	21.2	5.9
	5	24.6	2.7	24.8	3.1	24.1	5.5	20.9	4.6

The variability associated with sampling and in counting was determined using a blind test. Five replicate samples were taken from the DIComp sample from Marshall Hall on September 8, 1983. All the sample bottles for the entire trip on September 8 were coded so that the phytoplankton counter could not differentiate that a sample was a replicate or from a different station. The results, presented as cells per milliliter, for the ten predominant species are shown in table 4. The coefficient of variation for individual species ranged from 33 to 221 percent. This represents the inherent variability in drawing the aliquot from the churn splitter, withdrawing the aliquot to be counted from the sample bottle, and the variability in choosing which grids are to be counted.

The variability of the computed values for the total number of cells per milliliter are shown in table 5. The standard error is essentially the same as that computed for Microcystis aeruginosa because of the predominance of that organism in this particular sample.

Using an Olympus inverted microscope with an Apo 40x objective, randomly selected fields (250 x 250 μm) were used to count and identify phytoplankton. Organisms were identified to species, if possible--otherwise to the level known--and cell numbers of each taxa were recorded until a total of 250 cells had been counted. Filaments were counted according to how many grid lines (25 μm spacing) were crossed, except in the case of Anabaena spp. and Melosira spp. in which case individual cells were counted. The number of cells was estimated for colonial forms.

Table 4.--Results of blind counts on replicate samples from DIComp water samples collected at Marshall Hall on September 8, 1983

[Cells per milliliter]

Replicate number	Aphanocapsa	Chroococcus dispersus var minor	Chroococcus minutus	Melosira islandica	Microcystis aeruginosa ($\times 10^6$)	Oscillatoria	Phormidium mucicola	Scenedesmus abundans	Scenedesmus bijuga	Scenedesmus quadrivirgata
1	20560	5700	1142	2450	5.2	0	524	0	380	0
2	0	1430	72	5190	2.3	54	107	286	286	428
3	0	2855	856	5700	4.0	381	48	0	572	476
4	0	0	664	3400	1.5	45	30	0	482	604
5	28760	2140	286	3640	3.1	0	238	0	190	762
Mean	9864	2425	604	4080	3.2	96	189	58	382	454
Standard deviation	13814	2115	430	1330	1.4	161	204	128	152	284
Standard error of the mean	6177	946	192	595	.6	72.1	91.2	57	68	127
Coefficient of variation (%)	140	87	71	33	45	168	93	221	40	63

Table 5.--Cells per milliliter determined on replicate samples from a DIComp water sample collected at Marshall Hall on September 8, 1983

Replicate number	Total cells per milliliter ($\times 10^6$)
1	5.22
2	2.31
3	4.01
4	1.50
5	3.14
Mean	3.24
Standard deviation	1.45
Standard error of the mean	.65
Coefficient of variation (%)	45

DATA TABLES

Stations are identified by river km from the mouth. Refer to table 1 for station name and identification number. All stations were not sampled on every trip. Times are Eastern Daylight Savings Time except for November 9, 1983, which is Eastern Standard Time. All chlorophyll values presented in the data tables are chlorophyll-a corrected for pheophytin. Abbreviations used in the data tables are as follows: km is kilometers from mouth of Potomac River; $\mu\text{g/L}$ is milligrams per liter; and DISS is dissolved. A decimal point, ".", indicates no values.

Table 6 presents data on concentrations of dissolved nitrate, dissolved nitrite, dissolved ammonium, dissolved ammonium plus organic nitrogen, total nitrogen, dissolved orthophosphate, dissolved phosphorus, total phosphorus, dissolved silica, chlorophyll (chlorophyll-a corrected for pheophytin), pheophytin, and suspended sediment. Nutrient analyses of samples collected on August 31, 1983, were limited to selected dissolved species. These data are from DIComp (depth-integrated, composited) samples and represent the mean concentration at a cross-section rather than the concentration at a discrete point in the water column. The Maryland and Virginia channels at Alexandria (river km 168.0) were sampled as separate stations are differentiated by attaching "Md" and "Va", respectively, to the river km.

Table 7 presents field parameters of dissolved oxygen, pH, water temperature, specific conductance, and secchi depth from the verticals that were sampled to produce the DIComp samples. Also included are depth integrated chlorophyll and pheophytin concentrations from each vertical sampled, intermediate buoy stops, and tributary sampling. If there is no depth indicated, the sample is depth intergrated. Distances from left bank (looking downstream) may be used to locate the individual verticals along the station cross-section.

Table 8 presents phytoplankton enumeration and identification from DIComp samples. These are organized in downstream order and by day.

Tide stage data for the Potomac River at Alexandria, Va. and Quantico, Va. for the days when sampling was carried out is provided in figure 4.

**Table 6.--Nutrient, chlorophyll, and sediment data for
DICOMP samples**

TABLE 6
DI COMPOSITED RESULTS
FOR AUGUST 3, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME CLOCK	DISS NH ₄		DISS NO ₂		DISS NO ₃		DISS NH ₄ +ORG		DISS ORG		DISS PO ₄		TOTAL		DISS P		SILICA (MG/L AS SiO ₂)		CHL-A (UG/L)		PHEO-FLUORO-METRIC (UG/L)		PHYTIN FLUORO-METRIC (UG/L)		SEDIMENT (MG/L)	
		(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)					
187.2*	1225	0.09	0.32	0.66	0.2	0.7	0.30	<0.10	0.11	0.19	0.31	0.2	0.2	11.2	11.9	10	26.5	25.0	26.5	13.2	13.6	13.2	22	22	22	22	22
179.5	1840	0.13	0.01	0.23	2.0	1.5	<0.10	0.020	0.033	0.062	0.032	0.2	0.2	4.4	4.4	4.2	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
173.7	1815	0.27	0.05	1.40	0.7	1.3	<0.10	0.040	0.045	0.071	0.033	0.2	0.2	3.0	3.0	3.0	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
170.4	1830	0.48	0.07	1.90	1.5	1.6	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
168.9MD	1710	0.45	0.10	3.00	2.2	1.4	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	1.2	1.2	1.2	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
168.0VA	1730	0.51	0.10	2.20	2.2	1.7	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	1.5	1.5	1.5	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
165.5	1630	0.79	0.11	2.30	1.2	1.3	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	0.7	0.7	0.7	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
160.0	1630	0.22	0.11	2.10	0.9	1.2	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	0.3	0.3	0.3	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
151.0	1520	0.10	0.06	1.70	1.9	1.1	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	0.1	0.1	0.1	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2
144.0	1430	0.04	0.02	0.97	2.0	0.9	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	0.6	0.6	0.6	27	27	27	27	27	27	27	27	27	27	27
138.9	1225	0.06	0.03	1.20	0.5	1.2	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	0.2	0.2	0.2	31	31	31	31	31	31	31	31	31	31	31
125.6	1100	0.38	<0.01	0.88	1.0	2.6	<0.10	0.050	0.062	0.082	0.062	0.2	0.2	0.3	0.3	0.3	39	39	39	39	39	39	39	39	39	39	39

* Chain bridge sample collected on August 4, 1983.

TABLE O --cont.
DI COMPOSITED RESULTS
FOR AUGUST 10, 1983

IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HR CLOCK)	DISS NH ₄	DISS NO ₂	DISS NO ₃	DISS NH ₄	DISS NH ₄	DISS ORTHO PO ₄	DISS P	TOTAL	DISS SILICA (MG/L AS SiO ₂)	CHL-A (MG/L)	PHEO- FLUORO- METRIC (UG/L)	SUSPENDED SEDIMENT FLUORO- METRIC (UG/L)
		(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(UG/L)	(UG/L)	(UG/L)					
179.5	2030	0.20	0.02	0.56	0.3	1.1	.014	.018	.045	4.7	16.3	17.8	11
173.7	1943	0.35	0.08	1.30	0.5	1.1	.033	.036	.107	3.3	24.3	11.1	32
170.4	1915	0.52	0.11	1.40	0.7	1.2	.035	.044	.083	3.3	31.1	10.0	32
168.0	1815	0.50	0.16	2.30	0.7	1.3	.043	.045	.096	2.4	33.0	3.3	18
168.0	04	1845	0.48	0.12	1.40	1.0	.039	.036	.111	3.2	21.5	10.3	40
165.6	1800	0.49	0.15	2.00	1.0	1.2	.041	.042	.102	2.7	22.2	4.5	17
160.0	1740	0.40	0.20	2.00	0.7	1.0	.031	.030	.080	1.5	35.9	1.1	17
151.0	1630	0.21	0.22	2.00	0.9	0.9	.023	.023	.074	0.6	43.8	4.0	20
144.0	1545	0.05	0.07	1.30	0.3	1.3	.035	.024	.125	0.6	102.0	4.0	35
138.9	1445	0.05	0.03	0.97	0.5	1.3	.037	.032	.142	6.5*	122.5	3.7	51
125.6	1400	0.07	0.02	0.65	0.2	1.3	.046	.042	.119	0.8	67.8	6.0	33

* NOTE: Dissolved silica analysis appears to be too high when compared to other samples from this location

TABLE 6 --cont.
DI COMPOSITED RESULTS
FOR AUGUST 17, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HRS CLOCK)	DISS NH ₄ (MG/L AS N)		DISS NO ₂ (MG/L AS N)		DISS NO ₃ (MG/L AS N)		DISS NH ₄ + ORG (MG/L AS N)		DISS PO ₄ (MG/L AS N)		DISS TOTAL (MG/L AS P)		DISS SILICA (MG/L AS SiO ₂)		CHL-A FLUORO-METRIC (UG/L)		PHOTOPHYTIN FLUORO-METRIC (UG/L)		SUSPENDED SEDIMENT (MG/L)	
		DISS NH ₄ (MG/L AS N)	DISS NH ₄ (MG/L AS N)	DISS NO ₂ (MG/L AS N)	DISS NO ₃ (MG/L AS N)	DISS NH ₄ (MG/L AS N)	DISS NH ₄ (MG/L AS N)	DISS ORG (MG/L AS N)	DISS PO ₄ (MG/L AS N)	DISS TOTAL (MG/L AS P)	DISS SILICA (MG/L AS P)	CHL-A FLUORO-METRIC (UG/L)	PHOTOPHYTIN FLUORO-METRIC (UG/L)	SUSPENDED SEDIMENT (MG/L)	CHL-A FLUORO-METRIC (UG/L)	PHOTOPHYTIN FLUORO-METRIC (UG/L)	SUSPENDED SEDIMENT (MG/L)	CHL-A FLUORO-METRIC (UG/L)	PHOTOPHYTIN FLUORO-METRIC (UG/L)	SUSPENDED SEDIMENT (MG/L)	
179.5	1030	<0.01	0.02	0.93	0.5	0.6	0.26	-0.34	-0.058	4.3	23.4	5.0	11	-	-	-	-	-	-		
173.7	1050	0.11	0.36	0.94	0.4	0.6	0.55	-0.34	-0.056	4.3	27.6	6.6	13	-	-	-	-	-	-		
170.4	1125	0.21	0.12	1.50	0.9	0.7	0.22	-0.22	-0.033	0.61	2.2	47.6	9.7	18	-	-	-	-	-	-	
168.3	1230	0.15	1.10	1.90	1.2	1.0	*	-	-0.030	-0.065	*	4.8	3	7.2	19	-	-	-	-	-	
168.3	1320	0.87	2.19	2.90	0.7	1.0	-0.69	-0.48	-0.073	-0.9	2.9	42.1	5.7	14	-	-	-	-	-	-	
165.6	1330	0.26	3.23	2.10	0.5	0.5	-0.29	-0.27	-0.077	-0.7	3.7	42.4	5.3	19	-	-	-	-	-	-	
160.3	1420	0.13	0.19	2.00	0.3	0.9	-0.11	-0.26	-0.043	-0.3	50.0	6.9	24	-	-	-	-	-	-	-	
151.3	1500	<0.01	0.09	1.50	0.3	1.0	-0.18	-0.34	-0.070	-0.3	92.9	1.4	29	-	-	-	-	-	-	-	
144.0	1600	<0.01	0.01	0.43	0.3	1.6	-0.47	-0.59	-0.162	1.5	159.0	-0.4	37	-	-	-	-	-	-	-	
138.9	1650	<0.01	0.04	0.25	0.2	1.4	-0.45	-0.48	-0.231	1.9	169.7	-3.0	30	-	-	-	-	-	-	-	
125.6	1850	<0.01	<0.01	0.44	0.3	0.7	-0.05	-0.055	-0.102	1.5	43.3	4.0	24	-	-	-	-	-	-	-	

TABLE 6 --cont.
DI COMPOSITED RESULTS
FOR AUGUST 31, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HR CLOCK)	DISS NH ₄ (MG/L AS N)	DISS NO ₂ +NO ₃ (MG/L AS N)	DISS NH ₄ (MG/L AS N)	DISS +ORG (MG/L AS N)	TOTAL NH ₄ (MG/L AS N)	DISS ORTHO PO ₄ (MG/L AS P)	TOTAL P (MG/L AS P)	DISS SILICA (MG/L AS SiO ₂)	CHL-A (UG/L)	DISS FLUORIN METRIC (UG/L)	SUSPENDED SEDIMENT FLUORO-METRIC (MG/L) (UG/L)
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
179.5	1000	0.02	0.38	0.14	1.20	0.14	0.023	0.001	-----	17.5	7.7	-----
173.7	1045	0.14	0.35	0.32	2.40	0.32	0.065	0.023	-----	19.7	10.8	-----
170.4	1120	0.32	0.32	0.38	2.60	0.38	0.045	0.056	-----	16.9	6.4	-----
168.0	0VA 1200	0.38	0.38	0.35	2.90	0.35	0.056	0.029	-----	15.7	7.9	-----
168.0	JMD 1235	0.35	0.35	0.28	2.60	0.28	0.066	0.029	-----	21.4	5.7	-----
165.6	1300	0.28	0.28	<0.01	2.10	<0.01	0.053	0.006	-----	32.1	4.3	-----
160.0	1400	0.01	0.01	<0.01	1.20	<0.01	0.036	0.036	-----	67.8	-0.5	-----
151.0	1530	0.03	0.03	0.03	0.14	0.03	0.059	0.059	-----	131.1	-1.9	-----
144.0	1645	0.03	0.04	<0.10	<0.10	<0.10	0.087	0.087	-----	152.1	-1.4	-----
138.9	1730	0.04	0.04	0.06	0.10	0.06	0.059	0.059	-----	163.2	1.0	-----
125.6	1810	0.06	0.06	0.06	0.10	0.06	0.087	0.087	-----	36.9	2.9	-----

TABLE 6 --cont.
DI COMPOSITED RESULTS
FOR SEPTEMBER 8, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM MOUTH (KM)	TIME (HR CLOCK)	DISS NH4	DISS NO2	DISS NO3	DISS NH4 +ORG	TOTAL ORTHO P	DISS P	TOTAL CMG/L AS P	DISS SILICA (MG/L AS SiO2)	CHL-A (UG/L)	PHEO-FLUORO-METRIC (UG/L)	SUSPENDED PHYTIN-FLUORO-METRIC (MG/L)
		(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(UG/L AS P)	(UG/L AS P)	(MG/L AS P)
179.5	0930	0.13	0.03	0.86	0.1	0.7	0.45	0.057	0.7	8.9	5.1	10
173.7	1000	0.19	0.14	1.90	0.5	0.9	0.41	0.087	.	28.8	12.6	18
170.4	1035	0.32	0.21	2.40	0.4	1.0	0.38	0.090	.	29.4	9.4	13
168.0	0VA	0.32	0.22	2.50	0.2	0.8	0.37	0.044	0.8	33.6	9.2	18
168.0	MD	0.37	0.18	3.10	0.8	0.7	0.54	0.060	1.4	29.0	7.9	15
165.6	1220	0.29	0.21	2.60	0.6	1.1	0.31	0.039	0.7	44.2	10.4	34
160.0	1300	0.14	0.17	2.20	0.2	1.0	0.22	0.029	1.25	0.5	74.6	12.4
151.0	1350	0.03	0.08	1.60	0.1	1.5	0.22	0.029	1.10	1.1	119.9	7.5
144.0	1445	0.06	0.02	0.45	1.3	1.1	0.41	0.043	1.59	3.5	171.1	13.2
138.9	1535	0.13	0.02	0.10	<0.1	1.2	0.61	0.178	4.5	169.5	8.1	48
125.6	1630	0.36	<0.01	<0.09	0.6	0.9	0.139	0.114	6.0	42.0	5.3	48

TABLE 6 --cont.
DI-COMPOSITED RESULTS
FOR SEPTEMBER 21, 1983

IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HR CLOCK)	DISS NH ₄	DISS NO ₂	DISS NO ₃	DISS NH ₄ +ORG	DISS ORG	DISS PO ₄	TOTAL P	DISS SILICA (MG/L AS SiO ₂)	CHL-A FLUORO-METRIC	PHEO-PHYTIN FLUORO-METRIC	SUSPENDED SEDIMENT (MG/L)
		(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(UG/L)	(UG/L)	(UG/L)
173.7	1620	0.16	0.07	1.50	0.4	0.5	.024	.034	.106	1.4	46.9	14.1
170.4	1545	0.35	0.10	3.10	2.0	1.9	.028	.034	.112	1.1	36.0	12.2
168.0MD	1450	0.39	0.11	3.20	0.4	1.1	.020	.033	.153	0.7	34.5	15.4
168.0VA	1500	0.50	0.11	2.80	0.9	1.1	.020	.031	.087	0.7	35.5	13.2
165.6	1415	0.38	0.12	3.00	0.6	0.8	.012	.023	.097	0.5	37.5	10.8
160.0	1330	0.07	0.09	2.40	0.8	1.3	.012	.038	.103	0.4	98.3	8.4
151.0	1240	<0.01	<0.01	1.29	1.1	1.6	.006	.016	.161	1.7	129.1	7.4
144.0	1145	<0.01	<0.01	<0.09	1.1	1.8	.041	.040	.268	4.3	164.3	14.1
138.9	1030	<0.01	<0.01	<0.09	0.7	1.2	.082	.076	.240	5.7	126.0	6.9
125.6	9845	<0.01	<0.01	<0.09	0.5	0.6	.121	.109	.168	6.0	17.8	2.8
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TABLE 6 --cont.
DI COMPOSITED RESULTS
FOR SEPTEMBER 28, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HR CLOCK)	DISS NH4	DISS NO2	DISS NO3	DISS NH4 +ORG	DISS ORTHO ORG	DISS PO4	TOTAL P	DISS SILICA	CHL-A	PHEO-FLUORO-	SUSPENDED SEDIMENT FLUORO-
		(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS SiO2)	(UG/L)	PHYTIN METRIC	FLUORO-METRIC (UG/L)
179.5	1440	0.09	0.02	0.98	0.6	1.3	0.47	.053	.054	3.2	11.5	3.3
173.7	1420	0.36	0.08	2.30	0.7	1.2	0.53	.052	.059	1.8	15.2	8.5
170.4	1355	0.37	0.10	2.70	0.9	1.6	0.38	.042	.066	1.5	15.1	7.7
168.0MD	1300	0.45	0.10	3.20	1.0	1.5	0.47	.053	.063	1.4	14.2	8.3
168.0VA	1320	0.39	0.11	3.10	1.6	1.6	0.31	.036	.057	1.0	19.3	19
165.6	1240	0.24	0.10	2.90	1.3	2.3	0.15	.013	.053	0.7	48.9	6.9
160.0	1215	0.07	0.05	2.20	1.1	2.0	.008	.006	.059	0.6	90.8	5.4
151.0	1125	<0.01	0.03	1.20	1.7	3.3	.010	.148	2.3	105.4	6.2	50
144.0	1030	<0.01	0.01	<0.09	0.7	3.2	.028	.023	.101	5.3	111.8	5.1
138.9	0940	<0.01	0.01	<0.09	1.2	3.2	.034	.034	.248	5.6	137.8	5.5
125.6	0825	0.02	0.02	<0.08	0.8	1.6	.119	.109	.140	7.3	39.6	7.1

TABLE 6 --cont.
DI COMPOSITED RESULTS
FOR OCTOBER 14, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM MOUTH (KM)	TIME (HR CLOCK)	DISS NH4	DISS NO2	DISS NO3	DISS NH4	DISS TOTAL	DISS P	DISS ORTHO PO4	DISS TOTAL (MG/L AS P)	DISS SILICA (MG/L AS SiO2)	CHL-A (UG/L)	PHEO-FLUORO-METRIC (UG/L)	SUSPENDED PHYTIN FLUORO-METRIC (MG/L)
		(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	-	-	-						
168.0 DVA	1315	0.55	0.05	2.70	1.2	0.9	.054	.067	.117	1.9	6.9	6.3	18
165.6	1245	0.66	0.10	2.90	1.1	1.0	.052	.072	.086	1.9	8.4	4.8	10
160.0	1215	0.47	0.06	3.10	1.1	1.0	.044	.047	.083	1.5	23.1	4.9	6
151.0	1140	0.15	0.06	2.60	0.7	1.5	.007	.019	.069	1.1	64.6	5.5	14
144.0	1100	0.03	0.06	1.00	0.5	2.1	<.001	.010	.189	3.1	166.3	8.1	28
138.9	1000	0.03	<0.01	0.43	0.5	2.6	.004	.016	.244	4.3	174.0	5.1	39
125.6	0915	0.09	0.04	<0.06	0.5	1.1	.082	.096	.156	6.6	43.8	3.8	18

TABLE 6 --cont.
DI COMPOSITED RESULTS
FOR OCTOBER 27, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HR CLOCK)	DISS NH ₄	DISS NO ₂	DISS NO ₃	DISS NH ₄ +ORG (MG/L AS N)	TOTAL NH ₄ +ORG (MG/L AS N)	DISS ORTHO P O ₄ (MG/L AS P)	TOTAL ORTHO P O ₄ (MG/L AS P)	DISS SILICA (MG/L AS SiO ₂)	CHL-A (UG/L)	PHEO-FLUORO- PHYTIN METRIC (UG/L)	SUSPENDED FLUORO- SEDIMENT FLUORO- (MG/L METRIC (UG/L))
		(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS P)	(UG/L)	(UG/L)	(UG/L)
165.6	1710	0.38	0.02	1.40	0.5	0.8	.093	.098	.155	4.5	2.8	5.4
151.0	1615	0.42	0.02	1.50	0.6	0.7	.073	.075	.134	3.3	5.9	3.1
144.0	1530	0.53	0.05	2.10	1.0	1.0	.045	.055	.114	2.3	29.5	4.7
138.9	1415	0.53	0.05	2.40	0.5	1.2	.022	.031	.111	1.6	49.5	3.2
125.6	1315	0.31	0.01	0.34	0.5	1.1	.026	.038	.209	5.2	78.1	7.9
116.7	1220	0.33	0.01	0.16	0.7	1.1	.072	.073	.157	6.1	38.0	3.8
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TABLE 6 --cont.
DI COMPOSITED RESULTS
FOR NOVEMBER 9, 1983

IN THE TIDAL POTOMAC RIVER

DISTANCE FROM MOUTH (KM)	TIME (24 HR CLOCK)	DISS NH4	DISS NO2	DISS NO3	DISS NH4	DISS TOTAL	DISS P	DISS ORTHO PO4	DISS MG/L AS P	DISS MG/L AS P	DISS SILICA (MG/L AS SiO2)	CHL-A (UG/L)	PHEO FLUORO-METRIC	PHYTIN FLUORO-METRIC	SUSPENDED SEDIMENT (MG/L)
		(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	+ORG	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
165.6	1630	0.66	0.03	3.00	1.1	1.3	.089	.093	.124	.124	7.1	3.0	2.0	15	
151.0	1550	0.47	0.02	2.30	2.1	2.1	.079	.086	.134	.134	5.5	29.4	4.8	25	
144.0	1520	0.25	0.02	1.70	2.6	1.3	.037	.035	.106	.106	2.3	76.4	5.5	26	
138.9	1420	0.17	0.02	1.50	0.4	0.6	.034	.040	.119	.119	2.2	58.6	6.3	31	
125.6	1330	0.34	0.01	1.60	0.8	2.1	.034	.033	.172	.172	2.2	44.5	10.8	44	
116.7	1245	0.34	<0.01	0.84	0.8	1.0	.067	.069	.142	.142	4.4	19.3	4.6	23	
108.0	1203	0.32	<0.01	0.48	0.7	0.8	.080	.080	.118	.118	5.2	4.1	3.5	15	

Table 7.--Field parameters, point, and DI chlorophyll data.

TABLE 7
FIELD PARAMETER RESULTS
FOR AUGUST 3, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)
179.5	1848	475	2.0	30.1	30	350	7.4	8.0	..	..	..
179.5	1847	475	5.0	30.1	..	350	7.1	8.1	..	..	..
179.5	1845	475	10.0	28.8	..	359	3.1	7.3	..	..	..
179.5	1844	475	14.0	28.6	..	360	2.0	7.2	..	..	..
179.5	1843	475	14.0	28.6	..	362	1.0	7.1	..	..	..
179.5	1841	475	16.0	28.3	..	..	..	..	..	..	..
179.5	1856	1175	2.0	29.7	30	353	6.7	7.9	..	..	..
179.5	1855	1175	7.0	28.9	..	357	5.5	7.3	..	..	..
179.5	1853	1175	7.0	28.9	..	357	3.5	7.3	..	..	..
179.5	1851	1175	14.0	28.9	..	..	..	..	..	..	..
175.0	1831	720	..	..	19	..	..	..	36.3	13.7	..
173.7	1820	375	..	..	..	..	..	..	34.4	14.2	..
173.7	1819	375	2.0	29.6	25	365	7.6	7.7	..	..	..
173.7	1818	375	14.0	28.7	..	368	5.6	7.2	..	..	..
173.7	1816	375	29.0	28.2	..	355	4.3	7.1	..	..	..
173.7	1825	2800	..	..	..	..	..	..	..	..	..
173.7	1824	2800	2.0	29.4	22	356	7.1	7.6	..	..	..
173.7	1822	2800	6.0	28.7	..	361	5.2	7.2	..	..	..
170.4	1758	1200	..	..	..	..	..	..	38.4	7.5	..
170.4	1757	1200	2.0	31.7	22	374	7.0	7.3	..	..	..
170.4	1755	1200	11.0	29.7	..	375	6.3	7.0	..	..	..
170.4	1752	1200	22.0	28.6	..	384	4.9	7.0	..	..	..
170.4	1807	2100	..	..	..	..	..	..	40.0	7.0	..
170.4	1806	2100	2.0	32.6	22	374	7.0	7.3	..	..	..
170.4	1804	2100	10.0	29.4	..	376	5.5	7.0	..	..	..
170.4	1802	2100	20.0	28.8	..	379	5.0	7.0	..	..	..
168.0	1718	300	..	..	..	..	..	..	63.6	0.4	..
168.0	1717	300	2.0	30.0	29	388	8.9	7.2	..	..	..
168.0	1715	300	10.0	29.1	..	387	7.4	7.1	43.8	3.3	..
168.0	1725	1000	2.0	31.0	33	377	8.3	7.1	..	..	..
168.0	1723	1000	..	..	..	..	..	..	..	..	..

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 3, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (C)	SECCHI (DEG C)	CONDUCTANCE (UMMOS IN)	DISS. OXYGEN (MG/L AT 25C)	PH	CHL-A (UG/L)	PHEO-METRIC (UG/L)	FLUORO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)
168.0	1721	1000	6.0	29.6	-	387	7.9	7.0	51.6	6.5	-	-
168.0	1726	3100	-	30.0	34	358	7.2	-	-	-	-	-
168.0	1729	3100	2.0	29.0	-	360	5.6	6.9	-	-	-	-
168.0	1728	3100	15.0	29.0	-	365	5.1	6.8	-	-	-	-
168.0	1727	3100	29.0	28.8	-	-	-	-	-	-	-	-
168.0	1740	3800	-	29.7	27	364	6.5	7.0	-	-	-	-
168.0	1739	3800	2.0	29.7	-	364	5.5	6.9	-	-	-	-
168.0	1737	3800	10.0	29.1	-	367	5.0	6.8	-	-	-	-
168.0	1735	3800	20.0	28.9	-	-	-	-	-	-	-	-
165.6	1626	625	-	30.4	40	350	6.8	6.8	-	-	-	-
165.6	1624	625	2.0	29.0	-	331	5.9	6.7	-	-	-	-
165.6	1622	625	11.0	29.0	-	334	5.6	6.7	-	-	-	-
165.6	1620	625	19.0	28.8	-	-	-	-	-	-	-	-
165.6	1637	1600	-	30.1	37	350	7.5	6.9	-	-	-	-
165.6	1635	1600	2.0	29.2	-	353	6.0	6.7	-	-	-	-
165.6	1633	1600	10.0	29.2	-	-	-	-	-	-	-	-
165.6	1645	3600	-	30.3	-	329	7.3	6.8	-	-	-	-
165.6	1643	3600	2.0	30.3	-	341	7.4	6.8	-	-	-	-
165.6	1641	3600	10.0	30.0	-	-	-	-	-	-	-	-
162.5	1610	-	-	24	-	-	-	-	-	-	-	-
160.0	1553	300	-	29.6	43	305	6.3	6.6	-	-	-	-
160.0	1551	300	2.0	29.6	-	306	5.8	6.6	-	-	-	-
160.0	1549	300	10.0	29.5	-	303	4.7	6.5	-	-	-	-
160.0	1547	300	20.0	28.9	-	-	-	-	-	-	-	-
160.0	1559	1000	-	30.1	-	301	6.5	6.6	-	-	-	-
160.0	1558	1000	2.0	30.1	-	-	-	-	-	-	-	-
160.0	1556	1000	15.0	28.5	-	302	5.0	6.6	-	-	-	-
160.0	1555	1000	31.0	28.5	-	306	5.0	6.6	-	-	-	-
160.0	1605	2400	-	30.6	53	-	-	-	-	-	-	-
160.0	1603	2400	2.0	30.6	-	294	7.1	6.5	-	-	-	-
160.0	1601	2400	4.0	30.1	-	303	6.5	6.6	-	-	-	-
155.5	1540	1500	-	-	24	-	-	-	-	-	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 3, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (MUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A PHEO- FLUORO- PHYTIN FLUORO- METRIC METRIC (UG/L) (UG/L)		
									CHL-A FLUORO- METRIC (UG/L)	PHEO- FLUORO- METRIC (UG/L)	PHYTIN FLUORO- METRIC METRIC (UG/L)
151.0	1519	690	2.0	30.5	22	269	12.3	8.8	-	-	-
151.0	1518	690	4.5	28.8	-	268	8.4	8.0	-	-	-
151.0	1517	690	7.0	28.7	-	270	7.7	7.3	-	-	-
151.0	1515	690	14.0	28.7	-	269	8.0	7.3	-	-	-
151.0	1513	2490	-	-	-	-	-	-	75.0	3.3	-
151.0	1526	2490	2.0	30.7	19	259	12.8	8.9	-	-	-
151.0	1528	2490	7.0	29.1	-	270	8.2	7.4	-	-	-
151.0	1525	2490	12.0	28.6	-	275	6.6	6.9	-	-	-
151.0	1523	2490	23.0	28.6	-	275	6.5	6.5	-	-	-
151.0	1521	2490	3500	2.0	30.6	46	282	6.9	-	-	-
151.0	1532	3500	6.0	29.1	-	280	7.3	6.9	-	-	-
151.0	1531	3500	5100	-	15	-	-	-	98.2	9.9	-
151.0	1529	3500	1710	-	-	-	-	-	104.2	2.5	-
148.0	1450	1710	2.0	29.5	18	248	9.9	8.5	-	-	-
144.0	1445	1710	5.0	29.4	-	249	9.6	8.5	-	-	-
144.0	1439	1710	2940	-	-	-	-	-	115.9	-0.3	-
144.0	1438	2940	2.0	29.8	17	240	11.2	8.8	-	-	-
144.0	1437	2940	10.0	28.5	-	247	7.3	7.8	-	-	-
144.0	1435	2940	1740	20.0	28.4	-	247	7.2	7.7	-	-
144.0	1433	2940	3480	-	-	-	-	-	121.6	4.8	-
144.0	1430	3480	2.0	29.7	12	232	11.6	9.2	-	-	-
144.0	1429	3480	17.0	28.5	-	242	7.5	8.2	-	-	-
144.0	1427	3480	34.0	28.4	-	244	7.0	7.5	-	-	-
144.0	1425	3480	4140	-	-	-	-	-	129.2	6.6	-
144.0	1410	4140	2.0	30.0	-	13	-	-	-	-	-
144.0	1407	4140	5.0	29.2	-	235	13.5	9.4	-	-	-
144.0	1405	4140	18.0	28.6	-	229	11.2	9.1	-	-	-
144.0	1403	4140	26.0	28.4	-	238	8.2	8.6	-	-	-
144.0	1401	4140	1200	-	-	243	7.4	8.1	-	-	-
138.9	1222	1200	2.0	29.5	22	238	9.4	9.8	4.0	-	-
138.9	1221	1200	-	-	-	-	-	-	8.6	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 3, 1983

IN THE TIDAL POTOMAC RIVER										
DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (UMHOES AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)
138.9	1219	1200	14.0	28.1	•	240	6.5	7.5	•	•
138.9	1217	1200	28.0	28.1	•	240	6.5	7.4	91.3	4.8
138.9	1319	2340	•	•	•	234	10.3	8.8	•	•
138.9	1317	2340	2.0	30.1	20	234	6.5	7.4	•	•
138.9	1315	2340	18.0	28.1	•	237	6.6	7.3	114.9	4.2
138.9	1313	2340	37.0	28.1	•	236	6.6	7.3	•	•
138.9	1330	3480	•	•	•	239	9.7	8.8	•	•
138.9	1329	3480	2.0	29.3	19	239	9.6	8.7	•	•
138.9	1327	3480	7.0	29.0	•	239	7.9	8.0	95.9	2.9
138.9	1325	3480	14.0	28.3	•	240	7.9	8.0	•	•
138.9	1340	5420	•	•	•	•	•	•	58.7	7.2
138.9	1339	5420	2.0	29.0	19	242	8.5	8.4	•	•
138.9	1337	5420	5.0	28.9	•	242	8.4	8.4	•	•
138.9	1335	5420	10.0	28.7	•	242	8.2	8.2	•	•
132.0	1155	3900	•	•	18	•	•	91.8	5.8	•
127.5	1150	3600	•	•	29	•	•	•	33.8	5.8
125.6	1145	2300	•	•	•	•	•	•	•	•
125.6	1144	2300	2.0	29.2	31	438	8.9	8.2	•	•
125.6	1142	2300	8.0	28.1	•	514	6.4	7.5	•	•
125.6	1140	2300	17.0	28.1	•	517	6.3	7.6	•	•
125.6	1109	6000	•	•	•	•	•	•	63.4	9.4
125.6	1107	6000	2.0	29.8	24	301	10.4	8.8	51.3	5.3
125.6	1105	6000	10.0	28.5	•	318	7.7	8.1	60.4	4.4
125.6	1103	6000	20.0	28.4	•	314	7.1	7.7	62.7	6.5
125.6	1101	6000	31.0	28.3	•	349	6.8	7.5	60.1	13.8

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 10, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A (UG/L)	PHEO-METRIC FLUORO-METRIC FLUORO-METRIC (UG/L)
179.5	2012	475	2.0	30.7	20	37.3	9.3	-	19.7	18.8
179.5	2010	475	9.0	30.3	-	37.7	7.5	7.9	24.2	16.7
179.5	2009	475	15.0	-	-	-	-	-	22.6	18.2
179.5	2007	475	18.0	29.5	-	38.0	3.9	7.3	7.5	20.4
179.5	2006	475	-	-	-	-	-	-	9.2	21.2
179.5	2023	1175	2.0	29.9	24	38.0	5.9	-	12.3	17.6
179.5	2022	1175	9.0	29.9	-	38.1	5.4	7.6	-	-
179.5	2020	1175	18.0	29.6	-	38.2	4.6	7.3	-	-
179.5	2018	1175	-	-	18	-	-	-	21.0	21.8
176.5	2000	990	-	-	-	-	-	-	-	-
173.7	1933	375	-	-	-	-	-	-	24.6	11.6
173.7	1932	375	2.0	31.2	24	41.9	6.6	7.6	12.8	4.4
173.7	1931	375	12.0	-	-	-	-	-	23.0	9.1
173.7	1930	375	23.0	30.1	-	37.9	4.9	7.7	26.2	16.5
173.7	1929	375	36.0	30.0	-	37.6	4.8	7.7	26.5	20.8
173.7	1950	2800	-	-	-	-	-	-	32.8	12.9
173.7	1949	2800	3.0	30.7	20	37.7	6.9	7.9	-	-
173.7	1947	2800	7.0	30.7	-	37.6	6.8	7.9	-	-
170.4	1901	1200	-	-	-	37.3	6.8	-	25.4	11.0
170.4	1900	1200	2.0	31.0	22	-	-	-	36.8	5.6
170.4	1859	1200	12.0	29.6	-	37.4	4.0	7.1	26.9	9.4
170.4	1857	1200	20.0	-	-	-	-	-	27.6	14.5
170.4	1855	1200	25.0	29.6	-	37.5	4.0	7.1	28.0	24.0
170.4	1921	2100	-	-	-	-	-	-	22.9	8.7
170.4	1920	2100	2.0	30.8	25	38.0	5.7	7.4	-	-
170.4	1918	2100	12.0	30.2	-	38.2	4.4	7.5	-	-
170.4	1916	2100	24.0	30.0	-	38.0	4.2	7.4	-	-
168.0	1814	300	2.0	31.8	37	37.7	8.0	-	7.5	-
168.0	1813	300	5.0	30.4	-	37.8	5.5	7.3	-	-
168.0	1811	300	11.0	29.7	-	37.8	4.9	7.0	-	-
168.0	1819	1000	3.0	31.0	43	38.8	6.1	7.2	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 10, 1983
IN THE TIDAL POTOMAC RIVER

TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCT- ANCE (CUMHOS AT 25°C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO- METRIC (UG/L)	PHEO- PHYTIN FLUORO- METRIC (UG/L)
168.0	1817	1000	19.0	30.6	-	397	6.3	7.3	-
168.0	1838	3100	-	-	-	-	-	21.5	10.3
168.0	1837	3100	2.0	30.0	28	372	4.8	7.2	5.5
168.0	1835	3100	11.0	29.4	-	373	4.4	7.1	7.6
168.0	1834	3100	18.0	-	-	-	-	23.4	16.3
168.0	1833	3100	23.0	29.4	-	373	4.2	7.1	22.7
165.6	1739	625	-	-	-	-	-	-	4.5
165.6	1737	625	2.0	32.3	37	388	8.0	8.0	-
165.6	1735	625	12.0	30.9	-	388	5.2	7.9	-
165.6	1733	625	25.0	30.6	-	386	4.8	8.0	-
165.6	1750	1600	-	-	-	-	-	14.8	4.4
165.6	1749	1600	3.0	32.1	37	384	5.7	8.1	-
165.6	1755	2500	-	-	-	-	-	13.0	2.9
165.6	1753	2500	2.0	32.5	56	378	5.2	8.2	-
162.5	1730	2010	-	-	37	-	-	28.8	4.5
160.0	1709	300	-	-	-	-	-	40.7	4.5
160.0	1708	300	2.0	32.7	44	340	10.2	8.4	-
160.0	1707	300	10.0	31.4	-	349	5.8	8.0	-
160.0	1706	300	21.0	31.2	-	350	4.9	8.1	-
160.0	1705	300	42.0	31.0	-	363	5.3	8.1	-
160.0	1715	1000	-	-	-	-	-	33.4	2.7
160.0	1713	1000	2.0	31.4	30	361	6.3	7.7	2.9
160.0	1711	1000	15.0	31.6	-	363	6.4	7.8	2.6
160.0	1710	1000	29.0	31.3	-	367	5.1	8.2	3.4
160.0	1725	2400	-	-	-	-	-	23.7	2.2
160.0	1722	2400	3.0	31.9	70	346	6.7	7.7	-
157.0	1658	1350	-	-	55	-	-	45.9	1.4
155.5	1652	1500	-	-	37	-	-	52.5	3.0
151.0	1636	690	-	-	-	-	-	55.2	1.0
151.0	1635	690	2.0	31.4	42	310	9.7	8.0	-
151.0	1633	690	8.0	30.7	-	322	6.1	7.8	-
151.0	1631	690	15.0	30.7	-	320	6.1	7.9	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 10, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A	PHEO-
									FLUORO-METRIC (UG/L)	PHYTO-FLUORO-METRIC (UG/L)
151.0	1629	2490	2.0	31.6	35	325	7.6	7.6	48.0	3.5
151.0	1628	2490	11.0	30.6	*	330	5.3	7.5	37.7	1.8
151.0	1627	2490	22.0	30.4	*	327	4.9	7.4	43.1	3.4
151.0	1625	2490	*	*	*	*	*	*	43.5	6.3
151.0	1624	3500	*	*	*	*	*	*	42.5	1.3
151.0	1623	3500	3.0	30.6	58	292	8.4	7.3	*	*
151.0	1621	3500	7.0	30.0	*	305	7.0	7.3	*	*
148.0	1609	5100	*	*	29	*	*	*	75.1	2.2
144.0	1537	1710	2.0	32.0	16	282	15.6	11.0	*	*
144.0	1536	1710	4.5	31.6	*	278	14.6	10.7	146.9	4.4
144.0	1534	1710	*	*	*	*	*	*	*	*
144.0	1544	2940	*	*	*	*	*	*	119.6	3.6
144.0	1543	2940	2.0	31.5	17	278	11.9	10.0	*	*
144.0	1541	2940	13.0	31.0	*	279	9.5	9.0	*	*
144.0	1539	2940	26.0	30.8	*	282	8.5	8.7	*	*
144.0	1552	3480	*	*	*	*	*	*	94.2	2.8
144.0	1551	3480	2.0	32.9	18	297	11.5	10.7	96.6	2.9
144.0	1549	3480	16.0	32.1	*	304	9.6	9.2	89.4	1.5
144.0	1548	3480	25.0	*	*	*	*	*	92.7	3.9
144.0	1547	3480	33.0	32.3	*	308	9.3	9.6	83.9	14.1
144.0	1600	4140	*	*	*	*	*	*	88.2	5.1
144.0	1559	4140	2.0	32.6	19	297	11.6	10.5	*	*
144.0	1557	4140	18.0	32.2	*	302	8.9	9.5	*	*
144.0	1555	4140	25.0	32.1	*	302	9.2	9.5	*	*
141.5	1523	900	*	*	15	*	*	*	118.4	-0.4
138.9	1436	1200	*	*	*	*	*	*	103.6	7.3
138.9	1435	1200	2.0	30.4	16	257	11.5	9.1	*	*
138.9	1433	1200	9.0	29.5	*	254	8.4	8.6	*	*
138.9	1430	1200	18.0	29.5	*	254	8.2	8.5	*	*
138.9	1444	2340	*	*	*	*	*	*	121.1	5.0
138.9	1443	2340	2.0	30.4	17	258	11.2	9.1	116.4	5.6
138.9	1441	2340	18.0	29.6	*	253	8.7	8.6	118.4	2.4

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 10, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (MUMhos AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUOROPHOTOMETRIC (UG/L)	
									PHEO-PHYTIN FLUORO-METRIC (UG/L)	CHL-A FLUOROPHOTOMETRIC (UG/L)
138.9	1440	2340	30.0	29.5	*	252	8.2	*	138.1	18.7
138.9	1439	2340	35.0	*	*	252	10.7	*	132.3	20.1
138.9	1457	3480	*	*	17	253	*	*	115.8	3.5
138.9	1455	3480	2.0	30.4	*	252	8.4	*	*	*
138.9	1453	3480	7.0	29.7	*	251	8.4	*	*	*
138.9	1451	3480	13.0	29.6	*	251	8.4	*	*	*
138.9	1506	5420	*	*	*	251	14.1	*	126.2	3.8
138.9	1505	5420	2.0	31.5	17	251	11.1	*	*	*
138.9	1503	5420	5.0	29.5	*	248	11.1	*	*	*
138.9	1501	5420	10.0	29.3	*	247	10.1	*	*	*
134.0	1433	3900	*	*	15	*	*	*	115.1	9.1
130.0	1424	2640	*	*	13	*	*	*	100.2	4.2
127.5	1415	3600	*	*	14	*	*	*	104.1	3.1
125.6	1352	2300	*	*	*	*	*	*	42.3	7.2
125.6	1351	2300	2.0	29.1	22	471	7.7	*	*	*
125.6	1349	2300	8.0	28.7	*	499	6.6	*	*	*
125.6	1347	2300	17.0	28.7	*	512	6.5	*	*	*
125.6	1359	6000	*	*	20	*	*	*	78.9	1.4
125.6	1358	6000	2.0	30.0	20	530	10.2	*	*	*
125.6	1357	6000	13.0	29.4	*	557	9.3	*	*	*
125.6	1356	6000	26.0	29.1	*	554	8.7	*	*	*

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 17, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A	PHEO-
									(UG/L)	FLUOROPHYTIN METRIC (UG/L)
179.5	1027	475	1.0	26.0	36	390	9.5	8.2	21.7	28.6
179.5	1026	475	1.0	25.8	-	391	8.8	8.0	31.1	7.8
179.5	1024	475	7.0	25.8	-	397	6.6	7.7	5.8	8.1
179.5	1022	475	14.0	25.2	-	399	6.5	7.7	4.3	8.7
179.5	1020	475	17.0	25.2	-	399	6.5	7.7	24.6	5.4
179.5	1040	1175	1.0	26.0	33	390	10.1	8.3	-	-
179.5	1038	1175	7.0	25.7	-	392	8.8	8.1	-	-
179.5	1036	1175	11.0	25.4	-	394	7.6	7.8	-	-
179.5	1034	1175	14.0	25.4	-	397	7.1	7.8	-	-
179.5	1032	1175	18.0	25.3	-	-	-	-	-	-
176.5	1045	990	1.0	-	28	-	-	-	15.3	7.2
173.7	1100	375	1.0	-	-	-	-	-	32.5	9.8
173.7	1059	375	1.0	26.4	24	367	7.6	7.7	45.5	6.6
173.7	1057	375	10.0	25.9	-	377	6.2	7.5	27.0	9.2
173.7	1056	375	20.0	25.9	-	381	6.2	7.5	28.1	10.5
173.7	1054	375	25.0	25.9	-	381	6.1	7.5	25.2	10.0
173.7	1110	2800	1.0	26.3	30	388	7.3	7.6	-	-
173.7	1107	2800	6.0	25.7	-	387	6.4	7.6	-	-
173.7	1105	2800	12.0	-	-	-	-	-	19.3	6.1
170.4	1132	1200	1.0	28.3	21	384	7.9	7.4	57.5	7.7
170.4	1131	1200	10.0	26.3	-	388	6.9	7.4	47.6	6.4
170.4	1129	1200	20.0	26.0	-	380	6.3	7.4	41.4	7.8
170.4	1128	1200	24.0	26.0	-	380	6.3	7.5	41.4	10.2
170.4	1126	1200	21.0	-	-	-	-	-	51.7	5.7
170.4	1140	2100	1.0	27.4	21	383	7.8	7.5	-	-
170.4	1139	2100	5.0	26.2	-	380	6.7	7.5	-	-
170.4	1138	2100	12.0	26.1	-	380	6.5	7.3	-	-
170.4	1136	2100	24.0	26.1	-	380	6.4	7.4	-	-
170.4	1134	2100	300	1.0	26.9	-	411	9.8	52.8	6.2
168.0	1308	300	-	-	-	-	-	-	7.4	5.8
168.0	1306	300	-	-	-	-	-	-	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 17, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (UMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A METRIC (UG/L)	PHEO-METRIC (UG/L)	FLUOROPHYTIN METRIC (UG/L)	FLUOROFLOW METRIC (UG/L)
168.0	1304	300	7.0	26.7	*	411	9.6	7.4	50.5	6.9		
168.0	1302	300	14.0	26.6	*	404	9.1	7.4	60.0	6.9		
168.0	1259	1000	*	*	*	*	*	*	29.6	5.9		
168.0	1257	1000	1.0	27.0	24	385	8.9	7.3	*	*		
168.0	1255	1000	3.0	27.1	*	384	8.7	7.4	*	*		
168.0	1245	3100	*	*	*	*	*	*	48.8	9.5		
168.0	1243	3100	1.0	26.9	24	382	8.1	7.3	*	*		
168.0	1241	3100	10.0	26.6	*	389	7.3	7.3	53.6	6.6		
168.0	1239	3100	20.0	26.4	*	396	6.6	7.2	55.5	8.5		
168.0	1237	3100	31.0	26.4	*	416	5.7	7.1	45.3	8.5		
168.0	1236	3800	*	*	*	*	*	*	45.3	4.9		
168.0	1235	3800	1.0	27.3	24	422	6.7	7.0	*	*		
168.0	1234	3800	15.0	26.6	*	404	6.4	7.1	*	*		
168.0	1233	3800	28.0	26.5	*	425	5.9	7.1	*	*		
165.6	1328	625	*	*	*	*	*	*	39.7	4.6		
165.6	1326	625	1.0	27.2	30	362	8.5	7.3	31.0	3.8		
165.6	1324	625	5.0	27.0	*	364	8.3	7.2	34.5	4.1		
165.6	1322	625	15.0	26.7	*	371	7.4	7.2	36.4	7.2		
165.6	1320	625	25.0	26.4	*	376	6.5	7.3	41.4	6.6		
165.6	1344	1600	*	*	*	*	*	*	44.0	5.0		
165.6	1342	1600	1.0	27.0	24	375	7.4	7.2	*	*		
165.6	1340	1600	6.5	27.0	*	375	7.3	7.3	*	*		
165.6	1352	2500	*	*	*	*	*	*	43.4	4.8		
165.6	1350	2500	1.0	27.2	30	366	8.5	7.3	*	*		
165.6	1348	2500	4.0	27.2	*	366	8.4	7.3	*	*		
162.5	1355	2010	*	*	*	*	*	*	50.9	6.3		
160.0	1405	300	*	*	*	*	*	*	43.0	4.1		
160.0	1404	300	1.0	26.8	31	325	7.8	7.1	*	*		
160.0	1402	300	15.0	26.5	*	321	7.4	7.0	*	*		
160.0	1400	300	31.0	26.5	*	322	7.1	7.1	*	*		
160.0	1419	1000	*	*	*	*	*	*	54.0	5.2		
160.0	1418	1000	1.0	27.1	27	307	7.8	7.0	27.7	2.8		
160.0	1417	1000	10.0	26.4	*	320	7.1	7.0	43.8	3.7		

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 17, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-METRIC (UG/L)
160.0	1416	1000	20.0	26.2	•	329	6.4	6.9	48.3	7.1
160.0	1415	1000	25.0	26.2	•	327	6.5	7.0	52.0	8.9
160.0	1413	1000	32.0	26.2	•	329	6.3	7.0	51.0	13.3
160.0	1432	2400	•	•	•	•	•	•	45.1	2.1
160.0	1430	2400	1.0	27.2	36	328	8.4	7.0	•	•
160.0	1428	2400	7.0	27.1	•	331	8.0	7.0	•	•
158.0	1958	4	2.0	28.6	16	280	14.3	9.2	87.6	10.2
157.0	1440	1350	•	•	36	•	•	•	43.4	7.1
155.5	1445	1500	•	•	33	•	•	•	43.3	2.4
151.0	1459	690	•	•	•	•	•	•	105.2	3.2
151.0	1458	690	1.0	27.6	16	281	13.3	9.0	•	•
151.0	1457	690	8.0	26.6	•	279	10.7	8.6	•	•
151.0	1455	690	16.0	26.6	•	279	10.4	8.4	•	•
151.0	1508	2490	•	•	•	•	•	•	82.6	4.1
151.0	1509	2490	1.0	27.3	18	284	11.0	8.6	83.6	0.1
151.0	1507	2490	4.0	26.8	•	286	9.8	7.9	88.1	2.6
151.0	1505	2490	10.0	26.6	•	288	8.8	7.4	79.6	3.4
151.0	1503	2490	20.0	26.5	•	292	8.1	7.4	73.7	5.4
151.0	1501	2490	24.0	26.5	•	291	8.0	7.6	74.0	6.0
151.0	1515	3500	•	•	•	•	•	•	59.2	2.7
151.0	1514	3500	1.0	27.7	18	305	8.3	7.2	•	•
151.0	1512	3500	6.0	26.7	•	298	7.7	7.3	•	•
151.0	1510	3500	12.0	26.6	•	296	7.9	7.5	•	•
150.0	1917	•	2.0	28.8	22	274	16.7	9.6	43.2	5.0
148.0	1525	5100	•	•	12	•	•	•	144.2	2.3
148.0	1527	5100	•	•	13	•	•	•	156.9	-1.0
147.0	1908	•	1.0	27.6	•	•	•	•	139.7	3.0
147.0	1906	•	2.0	27.5	•	344	20.6	10.1	100.8	1.1
147.0	1905	•	5.0	26.6	•	343	20.5	10.2	•	•
147.0	1904	1710	•	•	•	297	17.1	10.0	109.8	3.3
144.0	1615	1710	1.0	27.3	12	266	14.5	9.5	157.9	1.0
144.0	1613	1710	•	•	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 17, 1983
IN THE TIDAL POTOMAC RIVER

TIME FROM RIVER MOUTH (HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCT- ANCE (UMMWS AT 25°C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO- METRIC (UG/L)	PHEO- PHYTIN FLUORO- METRIC (UG/L)
144.0	1611	1710	6.0	27.1	•	264	13.4	9.4	•
144.0	1610	2940	1.0	27.3	12	266	16.2	9.7	127.8
144.0	1609	2940	14.0	26.3	•	261	10.9	9.0	•
144.0	1607	2940	27.5	26.2	•	262	10.7	9.0	•
144.0	1605	2940	3480	•	•	•	•	159.0	-3.9
144.0	1551	3480	0.0	•	•	•	•	1826	29.0
144.0	1552	3480	1.0	27.3	11	266	16.5	9.8	207.2
144.0	1550	3480	5.0	27.1	•	260	14.8	9.6	-2.2
144.0	1548	3480	10.0	26.7	•	257	13.1	9.4	184.6
144.0	1546	3480	20.0	26.1	•	262	10.5	8.9	157.5
144.0	1544	3480	30.0	26.1	•	262	10.3	8.9	4.7
144.0	1542	3480	36.0	26.1	•	263	10.3	8.9	121.7
144.0	1540	3480	4140	•	•	•	•	192.0	1.4
144.0	1538	4140	1.0	27.3	9	272	16.9	9.8	191.9
144.0	1537	4140	8.0	26.7	•	259	14.8	9.7	192.4
144.0	1535	4140	15.0	26.6	•	256	14.4	9.7	-0.4
144.0	1533	4140	23.0	26.5	•	255	14.3	9.7	156.2
144.0	1531	4140	900	•	15	•	•	179.0	-3.3
141.5	1618	1200	•	•	•	•	•	154.2	-0.3
138.9	1625	1200	1.0	28.4	11	292	18.6	9.8	172.7
138.9	1624	1200	10.0	26.6	•	260	12.1	9.2	•
138.9	1622	1200	19.0	26.4	•	256	11.0	9.2	•
138.9	1620	1200	2340	•	•	301	•	132.3	2.2
138.9	1619	2340	0.2	28.7	12	301	20.1	10.0	231.6
138.9	1618	2340	1.0	28.7	•	296	20.0	10.0	-3.8
138.9	1617	2340	5.0	27.1	•	264	14.2	9.6	227.7
138.9	1616	2340	11.0	26.6	•	256	11.6	9.3	165.8
138.9	1615	2340	21.0	26.3	•	255	10.7	9.1	155.1
138.9	1614	2340	31.0	26.2	•	254	9.9	9.0	141.0
138.9	1613	2340	41.0	26.2	•	254	9.8	9.0	137.6
138.9	1612	3480	1656	•	•	•	•	132.3	21.9
138.9	1611	3480	1.0	•	•	•	•	176.1	2.2

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 17/1983
IN THE TIDAL POTOMAC RIVER

TIME (24 HOUR CLOCK)	FEET FROM RIVER MOUTH (KM)	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCT- ANCE (SUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO- METRIC (UG/L)	PHEO- PHYTIN FLUORO- METRIC (UG/L)
138.9	1655	3480	1.0	28.4	12	292	19.5	9.9	.
138.9	1653	3480	6.0	26.5	-	253	12.9	9.4	.
138.9	1652	3480	12.5	26.4	-	252	12.2	9.3	.
138.9	1708	5420	-	-	-	-	-	179.4	-7.6
138.9	1706	5420	0.2	29.1	-	306	18.8	10.2	-4.0
138.9	1707	5420	1.0	28.0	-	303	19.1	10.0	4.2
138.9	1705	5420	5.0	26.2	-	257	14.7	9.9	148.4
138.9	1703	5420	10.0	26.1	-	254	14.2	9.8	155.2
138.9	1701	5420	13.0	26.0	-	252	14.0	9.8	151.2
138.9	1832	*	2.0	28.2	13	301	17.0	10.0	-3.0
132.0	1715	3900	-	-	18	-	-	81.1	-1.0
127.5	1720	3600	-	-	22	-	-	122.0	-3.8
125.6	1740	2300	-	-	-	-	-	51.1	4.1
125.6	1739	2300	1.0	27.7	25	1310	10.6	33.8	4.6
125.6	1737	2300	10.0	27.1	-	1990	9.6	-	-
125.6	1735	2300	19.0	26.7	-	1930	8.0	8.5	-
125.6	1756	6000	-	-	-	-	-	8.1	-
125.6	1755	6000	1.0	27.1	18	1200	12.4	-	-
125.6	1753	6000	10.0	26.3	-	1510	8.8	39.8	6.0
125.6	1747	6000	20.0	26.4	-	1520	8.6	90.2	2.7
125.6	1751	6000	20.0	26.2	-	1520	8.6	35.2	4.8
125.6	1745	6000	30.0	26.2	-	1480	8.5	39.2	3.9
125.6	1749	6000	30.0	26.2	-	1480	8.4	8.6	8.8
								8.5	.

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 31, 1983

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (UMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)		
									PHEO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)	FLUORO-METRIC (UG/L)
179.5	1015	475	1.0	28.3	40	358	7.5	7.9	12.1	5.8	
179.5	1010	475	8.0	28.1	-	358	6.4	7.7	22.2	6.0	
179.5	1009	475	15.0	27.8	-	360	5.2	7.4	8.3	5.1	
179.5	1008	475	20.0	27.6	-	362	4.2	7.3	4.6	5.4	
179.5	1007	475	27.0	27.6	-	-	-	-	3.7	7.5	
179.5	1027	1175	1.0	28.2	37	358	7.7	8.0	22.7	10.0	
179.5	1023	1175	10.0	28.2	-	360	7.4	7.8	-	-	
179.5	1022	1175	10.0	27.8	-	362	5.0	7.4	-	-	
179.5	1021	1175	20.0	27.8	-	-	-	-	-	-	
179.5	1031	990	-	-	25	-	-	-	21.2	12.2	
173.7	1053	375	1.0	27.7	31	393	4.3	7.2	18.4	9.5	
173.7	1052	375	10.0	27.6	-	392	4.5	7.2	18.7	9.5	
173.7	1051	375	10.0	27.6	-	390	4.5	7.2	18.9	9.3	
173.7	1050	375	20.0	27.6	-	390	4.5	7.2	20.4	10.6	
173.7	1049	375	30.0	27.5	-	390	4.6	7.2	17.9	12.5	
173.7	1048	375	36.0	27.6	-	390	4.6	7.2	19.3	11.8	
173.7	1057	2800	-	-	-	370	-	-	20.6	13.1	
173.7	1055	2800	1.0	27.4	23	-	-	-	-	-	
173.7	1054	2800	6.5	27.4	-	370	5.3	7.3	-	-	
170.4	1111	1200	1.0	28.4	26	414	4.8	7.0	14.7	8.2	
170.4	1109	1200	10.0	28.3	-	420	4.5	7.0	17.2	6.6	
170.4	1108	1200	20.0	28.3	-	426	4.4	7.0	16.0	7.5	
170.4	1107	1200	25.0	28.2	-	429	4.3	7.0	11.6	8.8	
170.4	1106	1200	-	-	-	-	-	-	17.3	11.6	
170.4	1125	2100	-	-	-	-	-	-	19.2	9.2	
170.4	1123	2100	1.0	28.4	33	412	4.7	7.0	-	-	
170.4	1122	2100	12.0	28.3	-	413	4.5	7.0	-	-	
170.4	1121	2100	24.0	28.2	-	422	4.5	7.0	-	-	
168.0	1240	300	-	-	-	-	-	-	18.2	6.3	
168.0	1238	300	1.0	28.2	30	425	4.3	6.9	16.4	6.7	

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 31, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)
168.0	1237	300	7.0	28.2	-	426	4.2	6.9	18.1	7.0	
168.0	1236	500	14.0	28.1	-	427	4.1	6.9	19.0	6.3	
168.0	1233	1000	-	-	-	-	-	-	18.7	5.1	
168.0	1231	1000	1.0	28.0	30	430	4.6	7.0	-	-	
168.0	1230	1000	5.0	27.9	-	431	4.4	7.0	-	-	
168.0	1215	3100	-	-	-	-	-	-	15.5	8.8	
168.0	1213	3100	1.0	28.4	33	417	3.8	6.9	14.3	6.4	
168.0	1212	3100	9.0	28.3	-	417	3.8	6.9	14.4	8.1	
168.0	1211	3100	18.0	28.3	-	417	3.8	6.9	14.5	7.9	
168.0	1210	3100	25.0	28.4	-	418	3.8	6.9	14.6	10.1	
168.0	1209	3100	31.5	28.4	-	419	3.8	6.9	15.7	10.1	
168.0	1159	3800	-	-	-	-	-	-	13.8	8.8	
168.0	1158	3800	1.0	28.4	29	415	3.6	6.9	-	-	
168.0	1157	3800	15.0	28.3	-	413	3.5	6.9	-	-	
168.0	1155	3800	30.0	28.3	-	413	3.5	6.9	-	-	
165.6	1255	625	-	-	-	-	-	-	39.2	4.7	
165.6	1250	625	1.0	28.1	30	399	4.5	7.0	34.9	4.1	
165.6	1249	625	10.0	28.1	-	398	4.5	7.0	39.0	5.7	
165.6	1248	625	20.0	28.1	-	398	4.5	6.9	42.6	5.5	
165.6	1247	625	28.0	28.1	-	398	4.5	6.9	32.0	7.0	
165.6	1313	1600	-	-	-	-	-	-	31.1	5.2	
165.6	1311	1600	1.0	28.2	33	409	4.0	6.9	-	-	
165.6	1310	1600	6.5	28.2	-	408	3.9	6.9	-	-	
165.6	1317	2500	-	-	-	-	-	-	31.7	3.7	
165.6	1316	2500	1.0	28.2	34	409	4.1	6.9	-	-	
165.6	1315	2500	10.0	28.2	-	409	4.0	6.9	-	-	
162.5	1320	2010	-	-	-	-	-	-	50.9	7.0	
160.0	1334	300	-	-	-	-	-	-	72.4	0.8	
160.0	1332	300	1.0	28.1	26	369	6.3	7.1	-	-	
160.0	1331	300	22.0	28.0	-	367	5.9	7.1	-	-	
160.0	1330	300	44.0	28.0	-	367	5.9	7.1	61.1	3.2	
160.0	1356	1000	-	-	-	-	-	-	72.4	-0.3	
160.0	1354	1000	1.0	28.2	34	367	7.3	7.2	-	-	

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 31, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI (IN)	CONDUCTANCE (MUMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)
160.0	1353	1000	10.0	28.1	-	366	6.4	7.2	67.7	4.5	-
160.0	1352	1000	20.0	28.0	-	366	6.0	7.1	56.7	1.7	-
160.0	1351	1000	30.0	28.0	-	367	6.0	7.1	72.0	-0.6	-
160.0	1350	1000	37.0	28.0	-	366	5.9	7.3	65.2	3.2	-
160.0	1410	2400	-	-	-	-	-	-	75.8	-1.4	-
160.0	1406	2400	1.0	28.3	30	378	6.3	7.1	-	-	-
160.0	1405	2400	4.5	28.3	-	379	6.2	7.1	-	-	-
157.0	1500	1350	-	-	24	-	-	-	87.4	6.8	-
155.5	1505	1500	-	-	23	-	-	-	148.0	1.0	-
151.0	1522	690	-	-	-	-	-	-	173.3	2.2	-
151.0	1520	690	1.0	28.0	17	314	12.8	9.3	-	-	-
151.0	1519	690	7.0	28.0	-	314	12.7	9.3	-	-	-
151.0	1518	690	12.0	28.0	-	315	13.0	9.4	-	-	-
151.0	1536	2490	-	-	-	-	-	-	116.6	-2.0	-
151.0	1534	2490	1.0	28.1	18	332	10.6	8.9	136.4	-2.5	-
151.0	1533	2490	10.0	28.1	-	328	10.5	8.9	118.4	1.0	-
151.0	1532	2490	18.0	27.9	-	319	10.1	8.9	117.2	3.5	-
151.0	1531	2490	24.0	27.9	-	319	10.1	9.0	124.3	0.7	-
151.0	1543	3500	-	-	-	-	-	-	104.5	1.3	-
151.0	1541	3500	1.0	28.1	19	342	9.4	8.4	-	-	-
151.0	1540	3500	15.0	28.1	-	341	9.2	8.3	-	-	-
147.0	1752	-	-	-	-	-	-	-	236.8	-4.8	-
144.0	1653	1710	-	-	-	-	-	-	199.9	-16.0	-
144.0	1651	1710	1.0	27.7	12	298	12.4	9.5	-	-	-
144.0	1650	1710	6.0	27.7	-	-	-	-	167.4	-5.4	-
144.0	1635	2940	-	-	-	-	-	-	-	-	-
144.0	1633	2940	1.0	27.6	13	291	11.7	9.5	-	-	-
144.0	1632	2940	15.0	27.7	-	290	11.6	9.5	-	-	-
144.0	1631	2940	30.0	27.7	-	289	11.5	9.5	-	-	-
144.0	1630	2940	35.0	27.7	-	290	11.7	9.4	-	-	-
144.0	1625	3480	-	-	-	-	-	-	145.2	1.4	-
144.0	1623	3480	1.0	27.7	13	288	11.6	9.5	175.8	-7.7	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 31, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	PHEO-FLUOROPHYTIN FLUOROMETRIC (UG/L)	
									CHL-A (UG/L)	CHL-B (UG/L)
144.0	1622	3480	10.0	27.7	•	287	11.7	9.5	96.9	-0.1
144.0	1621	3480	20.0	27.7	•	287	11.7	9.5	134.5	-1.5
144.0	1620	3480	28.0	27.7	•	286	11.6	9.5	152.2	0.2
144.0	1619	3480	33.0	27.7	•	286	11.6	9.4	145.9	3.3
144.0	1609	4140	•	•	•	285	12.5	9.7	135.9	1.3
144.0	1607	4140	1.0	27.7	12	288	12.5	9.7	•	•
144.0	1605	4140	14.5	27.7	•	288	12.5	9.7	145.9	6.5
141.5	1702	900	•	•	12	•	•	•	137.9	-4.7
138.9	1719	1200	1.0	27.9	11	304	14.0	9.7	•	•
138.9	1717	1200	10.0	27.7	•	294	11.9	9.5	•	•
138.9	1716	1200	19.0	27.6	•	293	11.7	9.5	•	•
138.9	1715	1200	23.0	27.6	•	294	12.2	9.5	155.8	-3.9
138.9	1725	2340	1.0	27.8	12	294	11.4	9.5	133.6	11.0
138.9	1724	2340	10.0	27.7	•	292	11.4	9.5	126.8	-0.5
138.9	1723	2340	10.0	27.7	•	291	11.2	9.4	127.7	0.6
138.9	1722	2340	20.0	27.7	•	291	11.2	9.4	173.9	2.2
138.9	1721	2340	30.0	27.7	•	291	11.2	9.4	181.4	-2.3
138.9	1720	2340	38.0	27.7	•	291	11.2	9.4	202.1	1.2
138.9	1736	3480	1.0	27.8	12	298	13.9	9.8	•	•
138.9	1734	3480	10.5	27.8	•	297	13.7	9.8	130.2	-4.8
138.9	1733	3480	10.5	27.8	•	297	13.7	9.8	•	•
138.9	1740	5420	•	•	•	•	•	•	65.1	2.9
138.9	1739	5420	1.0	27.6	10	291	12.2	9.9	•	•
138.9	1738	5420	10.5	27.6	•	290	12.1	9.5	37.1	2.9
134.0	1742	3900	•	•	11	•	•	•	98.7	9.2
133.0	1750	•	•	•	•	•	•	•	•	•
127.5	1745	3600	•	•	12	•	•	•	45.9	•
125.6	1805	2300	•	•	•	1930	10.4	9.4	•	•
125.6	1803	2300	1.0	27.6	22	1920	10.4	9.4	•	•
125.6	1802	2300	10.0	27.6	•	1930	10.3	9.3	43.7	2.4
125.6	1801	2300	16.5	27.6	•	1870	9.6	9.3	47.5	1.4
125.6	1825	6000	1.0	27.6	13	1870	9.6	9.3	•	•
125.6	1824	6000	1.0	27.6	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR AUGUST 31, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI (IN)	CONDUCTANCE (UMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)
125.6	1823	6000	10.0	27.4	-	-	-	-	-	-
125.6	1822	6000	20.0	27.3	-	1970	9.3	9.2	52.2	4.9
125.6	1821	6000	28.5	27.3	-	2090	8.8	9.1	39.6	4.1
						2100	8.8	9.1	46.0	3.0

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 8, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)
179.5	0921	475	1.0	27.4	33	420	6.4	7.6	9.4	4.3
179.5	0919	475	10.0	27.5	-	420	6.4	7.6	12.9	5.5
179.5	0917	475	20.5	27.4	-	429	6.3	7.7	12.7	5.0
179.5	0915	475	-	-	-	-	-	6.2	6.2	4.3
179.5	0929	1175	-	-	-	-	-	7.3	7.3	5.1
179.5	0927	1175	1.0	27.4	34	425	6.3	7.6	-	-
179.5	0926	1175	10.0	27.4	-	424	6.2	7.6	-	-
179.5	0925	1175	19.0	27.0	-	425	6.1	7.6	-	-
173.7	0953	375	-	-	-	-	-	-	-	-
173.7	0951	375	1.0	28.3	31	393	5.5	7.1	25.8	11.1
173.7	0949	375	15.0	28.3	-	394	5.1	7.1	26.3	10.1
173.7	0947	375	30.0	28.2	-	397	5.1	7.1	25.5	11.7
173.7	0945	375	36.0	28.2	-	398	5.1	7.1	23.9	12.5
173.7	1009	2800	-	-	-	-	-	7.2	22.6	13.0
173.7	1007	2800	1.0	28.0	24	393	6.2	7.1	30.6	12.2
173.7	1005	2800	4.0	28.0	-	391	5.9	7.1	-	-
173.7	1001	2800	9.0	27.0	-	384	5.3	7.1	-	-
170.4	1029	1200	-	-	-	-	-	29.0	9.3	-
170.4	1027	1200	1.0	30.1	35	393	5.4	6.9	23.3	10.9
170.4	1025	1200	11.0	28.7	-	398	4.9	6.9	26.8	9.9
170.4	1023	1200	22.0	28.3	-	404	4.4	7.0	26.6	10.2
170.4	1045	2100	-	-	-	-	-	27.6	11.7	-
170.4	1043	2100	1.0	31.0	32	392	5.4	6.7	-	-
170.4	1041	2100	13.0	28.3	-	402	4.4	6.8	-	-
170.4	1039	2100	26.0	28.2	-	410	4.5	6.8	-	-
168.0	1143	300	-	-	-	-	-	31.0	10.4	-
168.0	1142	300	1.0	28.3	31	432	5.7	6.9	28.2	10.5
168.0	1141	300	7.0	28.2	-	434	5.6	6.9	-	-
168.0	1140	300	14.0	28.2	-	442	5.6	6.9	29.5	10.6
168.0	1131	1000	-	-	-	-	-	20.8	6.7	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 8, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)
163.0	1130	1000	2.0	28.5	30	418	5.9	6.9	38.1	7.7	8.0
168.0	1110	3100	1.0	28.4	34	396	5.1	6.9	39.0	8.0	7.3
168.0	1108	3100	12.0	28.2	•	392	4.7	6.8	34.1	7.3	9.5
168.0	1106	3100	25.0	28.2	•	400	4.5	6.9	32.3	9.1	11.3
168.0	1104	3100	33.0	28.2	•	400	4.5	6.9	34.4	10.5	10.5
168.0	1102	3100	3800	1.0	28.5	35	396	5.1	6.8	•	•
168.0	1119	3800	16.0	28.5	•	400	4.5	6.8	•	•	•
168.0	1117	3800	32.0	28.1	•	406	4.5	6.9	44.0	8.9	8.9
168.0	1114	3800	625	•	•	34	413	5.2	6.8	21.3	8.8
165.6	1217	625	1.0	28.6	•	400	5.3	6.9	38.3	8.6	8.6
165.6	1215	625	10.0	28.4	•	395	5.2	6.9	44.0	9.9	9.9
165.6	1213	625	20.0	28.3	•	396	4.9	6.8	43.0	16.0	16.0
165.6	1211	625	28.5	28.4	•	•	•	46.0	•	•	•
165.6	1209	625	1600	•	•	24	396	5.1	6.9	•	•
165.6	1225	1600	1.0	28.4	•	396	5.0	6.8	•	•	•
165.6	1223	1600	6.5	28.4	•	396	5.0	6.8	•	•	•
165.6	1221	1600	2500	•	•	393	5.4	6.9	49.8	11.9	11.9
165.6	1238	2500	1.0	28.6	•	393	5.4	6.9	52.5	10.5	10.5
165.6	1236	2500	7.0	28.5	•	393	5.4	6.9	80.9	10.6	10.6
165.6	1234	2500	3010	•	31	•	•	•	•	•	•
160.0	1259	300	1.0	28.6	•	380	8.0	7.2	68.0	8.8	8.8
160.0	1258	300	4.0	28.6	•	380	7.7	7.2	59.7	4.5	4.5
160.0	1257	300	22.0	28.2	•	379	6.5	7.0	56.6	9.1	9.1
160.0	1256	300	45.0	28.2	•	389	5.8	6.9	66.2	11.2	11.2
160.0	1254	300	1000	•	•	•	•	•	68.0	20.0	20.0
160.0	1312	1000	1.0	28.5	24	386	6.6	7.0	•	•	•
160.0	1311	1000	12.0	28.4	•	386	6.2	7.0	•	•	•
160.0	1309	1000	25.0	28.3	•	387	5.9	6.9	66.2	11.2	11.2
160.0	1307	1000	32.5	28.4	•	388	5.8	6.8	68.0	20.0	20.0
160.0	1305	1000	388	•	•	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 8, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-PHYTIN FLUORO-METRIC (UG/L)
160.0	1319	2400	1.0	28.7	-	382	8.1	7.3	-	5.7
160.0	1317	2400	5.5	28.6	-	382	7.8	7.2	-	-
160.0	1315	2400	-	-	-	-	-	-	-	-
151.0	1341	690	1.0	28.3	18	355	11.0	8.7	134.4	10.1
151.0	1339	690	8.0	28.1	-	354	10.3	8.6	-	-
151.0	1337	690	17.0	28.1	-	354	10.0	8.5	-	-
151.0	1335	690	-	-	-	-	-	-	-	-
151.0	1349	2490	1.0	28.3	23	370	9.2	8.0	99.7	10.9
151.0	1348	2490	9.0	28.1	-	370	8.5	7.9	108.1	6.4
151.0	1347	2490	18.0	28.1	-	367	8.4	7.9	90.4	10.8
151.0	1345	2490	22.5	28.1	-	366	8.4	8.0	108.4	16.4
151.0	1343	3500	1.0	28.6	22	370	10.3	8.3	-	29.4
151.0	1406	3500	7.0	28.3	-	360	10.0	8.4	-	3.8
151.0	1404	3500	15.0	28.1	-	346	10.4	8.7	-	-
151.0	1402	3500	-	-	-	-	-	-	-	-
151.0	1400	3500	365	1.0	28.6	11	336	17.6	9.8	11.7
144.0	1458	365	5.0	28.2	-	320	15.5	9.7	-	-
144.0	1456	365	1200	-	-	-	-	-	-	-
144.0	1454	1200	1.0	28.3	12	319	14.5	9.5	140.8	10.6
144.0	1452	1200	14.0	28.3	-	314	12.4	9.3	-	-
144.0	1448	1200	35.0	27.9	-	313	11.5	9.2	-	-
144.0	1440	3480	-	-	-	-	-	-	145.0	10.9
144.0	1438	3480	1.0	28.3	12	322	14.0	9.4	180.9	14.0
144.0	1436	3480	12.0	28.1	-	323	12.6	9.2	148.4	12.8
144.0	1434	3480	25.0	28.0	-	322	11.8	9.2	125.7	10.8
144.0	1432	3480	32.0	28.0	-	324	11.6	9.1	139.7	19.2
144.0	1425	4140	-	-	-	-	-	-	172.7	5.3
144.0	1424	4140	1.0	28.2	12	324	13.0	9.3	-	-
144.0	1422	4140	9.0	28.1	-	321	13.3	9.3	-	-
144.0	1420	4140	17.0	28.1	-	321	12.8	9.3	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 8, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE AT 25°C	DISSolved OXYGEN (MG/L)	pH	PHEO-FLUOROPHYTIN FLUOROMETRIC METRIC (UG/L)	
									CHL-A FLUORO-	CHL-A FLUORO-
138.9	1525	1200	1.0	28.6	11	328	15.8	9.7	.	.
138.9	1523	1200	10.0	28.2	-	310	13.1	9.4	.	.
138.9	1522	1200	19.5	28.1	-	307	12.3	9.4	.	.
138.9	1520	1200	1.0	28.6	11	320	15.7	9.6	229.8	14.9
138.9	1534	2340	1.0	28.6	-	308	12.6	9.4	121.6	6.4
138.9	1533	2340	15.0	28.1	-	307	12.1	9.4	124.3	16.1
138.9	1532	2340	30.0	28.0	-	305	11.8	9.4	157.0	8.3
138.9	1530	2340	39.0	27.9	-	305	11.8	9.4	158.8	6.4
138.9	1550	3480	1.0	28.9	-	335	17.1	9.9	.	.
138.9	1549	3480	1.0	28.9	12	333	16.9	10.0	.	.
138.9	1548	3480	2.0	28.9	-	333	16.5	9.9	.	.
138.9	1547	3480	3.0	28.8	-	327	15.8	9.9	.	.
138.9	1545	3480	4.0	28.8	-	327	15.5	9.5	.	.
138.9	1544	3480	5.0	28.8	-	304	12.1	9.4	.	.
138.9	1542	3480	6.0	28.1	-	304	12.1	9.4	.	.
138.9	1540	3480	12.0	27.9	-	303	12.9	9.6	.	.
138.9	1559	5420	1.0	28.6	11	319	15.3	9.9	126.4	4.1
138.9	1557	5420	1.0	28.6	-	312	14.3	9.8	.	.
138.9	1555	5420	6.0	28.4	-	299	12.3	9.6	103.1	5.4
138.9	1553	5420	11.5	27.9	-	11	-	-	41.7	9.9
138.9	1645	3900	-	-	-	-	-	-	.	.
125.6	1629	2300	1.0	28.0	22	1598	9.9	9.3	.	.
125.6	1628	2300	10.0	27.6	-	1848	8.4	9.0	.	.
125.6	1627	2300	10.0	27.6	-	1803	8.3	9.0	.	.
125.6	1626	2300	19.0	27.7	-	-	-	-	44.3	6.2
125.6	1641	60000	-	-	-	-	-	-	.	.
125.6	1639	60000	1.0	28.2	18	1113	11.6	9.6	.	.
125.6	1637	60000	14.0	27.9	-	1305	10.0	9.4	.	.
125.6	1635	60000	29.0	27.9	-	1409	9.7	9.4	.	.

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 21, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS. OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)
173.7	1619	300	1.0	24.2	•	437	7.6	43.5	15.3	•	•
173.7	1618	375	1.0	24.2	•	438	7.6	7.6	•	•	•
173.7	1617	375	17.0	24.3	•	435	7.6	7.6	•	•	•
173.7	1615	375	34.0	24.2	•	444	7.7	7.6	60.2	20.9	•
173.7	1632	2800	2.0	24.5	18	467	7.3	7.3	33.5	10.8	•
173.7	1630	2800	•	•	•	469	7.2	7.2	•	•	•
173.4	1550	1200	•	•	•	466	7.0	7.2	56.8	14.1	•
170.4	1549	1200	1.0	25.4	26	462	7.3	7.3	•	•	•
170.4	1547	1200	12.0	25.3	•	456	7.3	7.3	•	•	•
170.4	1546	1200	24.0	25.0	•	448	7.5	7.4	35.5	10.9	•
170.4	1559	2100	•	•	•	469	7.4	7.2	•	•	•
170.4	1557	2100	1.0	25.3	26	466	7.3	7.3	•	•	•
170.4	1555	2100	12.0	24.9	•	456	7.3	7.3	37.8	16.9	•
170.4	1553	2100	25.0	24.7	•	445	6.9	7.2	•	•	•
168.0	1447	300	•	•	19	469	7.4	7.2	•	•	•
168.0	1445	300	1.0	24.7	•	466	7.2	7.2	•	•	•
168.0	1443	300	12.0	24.7	•	466	7.2	7.2	•	•	•
168.0	1437	1000	•	•	•	445	6.9	7.2	•	•	•
168.0	1435	1000	2.0	25.1	•	455	6.8	7.2	•	•	•
168.0	1504	3400	1.0	25.3	24	452	6.8	7.2	•	•	•
168.0	1502	3400	15.0	25.3	•	465	6.8	7.2	•	•	•
168.0	1501	3400	29.0	25.2	•	446	6.8	7.2	•	•	•
165.6	1408	625	•	•	•	446	7.1	7.2	34.6	10.6	•
165.6	1406	625	1.0	24.8	24	446	6.9	7.2	36.7	10.8	•
165.6	1404	625	8.0	24.9	•	446	6.9	7.2	34.4	10.2	•
165.6	1402	625	18.0	24.8	•	445	7.0	7.3	36.8	9.3	•
165.6	1400	625	25.0	24.8	•	444	7.1	7.4	36.2	13.0	•
165.6	1414	1600	•	•	•	436	6.8	7.2	38.6	9.2	•
165.6	1413	1600	1.0	24.7	24	436	6.8	7.2	•	•	•
165.6	1412	1600	6.0	24.7	•	436	6.8	7.2	41.2	14.0	•
165.6	1424	2500	•	•	•	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 21, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25°C)	DISS. OXYGEN (MG/L)	PH	PHEO-METRIC FLUORO-METRIC (UG/L)	
									CHL-A	PHYTIN
165.6	1422	2500	1.0	24.5	19	427	7.0	7.2	-	-
165.6	1420	2500	5.0	24.6	-	427	7.0	7.2	-	-
160.0	1322	300	-	-	-	-	-	-	82.5	11.3
160.0	1320	300	1.0	24.4	19	400	8.5	7.9	-	-
160.0	1318	300	20.0	24.4	-	401	8.3	7.9	-	-
160.0	1316	300	42.0	24.4	-	404	8.2	7.9	-	-
160.0	1329	1000	-	-	-	-	-	-	89.0	2.6
160.0	1328	1000	1.0	24.4	22	405	8.3	7.7	84.4	5.8
160.0	1327	1000	10.0	24.4	-	404	8.2	7.7	82.8	5.6
160.0	1326	1000	20.0	24.4	-	404	8.2	7.7	85.9	4.3
160.0	1325	1000	29.0	24.4	-	404	8.2	7.8	81.0	10.2
160.0	1337	2400	-	-	-	-	-	-	135.3	4.2
160.0	1335	2400	2.0	24.2	-	398	9.7	8.5	-	-
157.0	1310	1350	-	-	18	-	-	-	94.6	6.5
151.0	1234	690	-	-	-	-	-	-	141.9	3.9
151.0	1232	690	1.0	24.5	12	360	11.5	9.3	-	-
151.0	1230	690	8.0	24.4	-	360	11.4	9.3	-	-
151.0	1228	690	16.0	24.4	-	360	11.3	9.3	-	-
151.0	1239	2490	-	-	-	-	-	-	114.6	0.4
151.0	1238	2490	1.0	24.5	12	366	11.3	9.2	107.8	7.3
151.0	1237	2490	9.0	24.5	-	366	11.3	9.2	111.0	6.6
151.0	1236	2490	18.0	24.5	-	365	11.2	9.2	95.3	0.7
151.0	1235	2490	24.0	24.5	-	368	11.0	9.1	133.0	2.2
151.0	1251	3500	-	-	-	-	-	-	139.6	12.0
151.0	1249	3500	1.0	24.6	12	372	11.6	9.3	-	-
151.0	1248	3500	12.0	24.5	-	372	11.6	9.2	-	-
148.0	1205	5100	-	-	-	-	-	-	148.9	2.3
144.0	1127	1710	-	-	-	-	-	-	198.6	13.3
144.0	1125	1710	1.0	24.3	-	347	11.9	9.7	-	-
144.0	1123	1710	6.0	24.3	-	347	11.8	9.7	226.7	2.3
144.0	1139	2940	1.0	24.3	8	348	11.7	9.7	-	-
144.0	1137	2940	-	-	-	-	-	-	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 21, 1983
IN THE TIDAL POTOMAC RIVER

TIME (24 HOUR CLOCK)	FEET FROM RIVER MOUTH (KM)	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCT- ANCE (UMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO- METRIC (UG/L)	PHEO- FLUORO- METRIC (UG/L)
144.0	1135	294.0	16.0	24.4	-	348	11.7	9.7	-
144.0	1133	294.0	33.0	24.4	-	348	11.6	9.7	-
144.0	1150	348.0	-	-	-	-	-	136.4	8.3
144.0	1149	348.0	1.0	24.3	8	349	11.5	9.7	139.2
144.0	1148	348.0	14.0	24.3	-	349	11.3	9.7	143.6
144.0	1147	348.0	28.0	24.3	-	349	11.3	9.7	168.7
144.0	1146	348.0	36.0	24.3	-	349	11.3	9.7	189.4
144.0	1158	414.0	-	-	-	-	-	135.6	3.9
144.0	1156	414.0	1.0	24.2	8	352	11.3	9.7	-
144.0	1154	414.0	15.0	24.2	-	351	11.2	9.7	-
144.0	1152	414.0	29.0	24.2	-	351	11.1	9.7	-
141.5	1100	900	-	-	-	-	-	207.4	13.1
138.9	1013	120.0	1.0	24.3	11	392	10.5	9.6	108.0
138.9	1011	120.0	12.0	24.2	-	396	10.0	9.6	-
138.9	1009	120.0	25.0	24.2	-	382	10.0	9.6	-
138.9	1007	120.0	-	-	-	-	-	131.0	2.7
138.9	1025	234.0	-	-	-	-	-	143.0	-1.5
138.9	1023	234.0	1.0	24.3	10	364	11.1	9.8	111.6
138.9	1019	234.0	15.0	24.3	-	367	10.5	9.7	3.3
138.9	1017	234.0	30.0	24.3	-	367	10.7	9.7	137.4
138.9	1015	234.0	39.0	24.3	-	396	10.0	9.7	137.8
138.9	1039	348.0	-	-	-	-	-	144.3	10.9
138.9	1037	348.0	1.0	24.2	10	419	10.6	9.9	-
138.9	1035	348.0	5.0	24.2	-	419	10.6	9.9	-
138.9	1033	348.0	11.5	24.2	-	420	10.3	9.8	-
138.9	1047	542.0	-	-	-	-	-	130.5	6.0
138.9	1045	542.0	1.0	24.3	6	402	10.3	10.0	-
138.9	1043	542.0	6.0	24.3	-	402	10.3	10.0	-
138.9	1041	542.0	12.5	24.3	-	406	10.2	10.0	-
132.0	0910	390.0	-	-	15	-	-	47.6	5.4
125.6	0836	230.0	-	-	-	-	-	12.0	3.6

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 21, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (UMMOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)
125.6	0834	2300	1.0	24.5	22	3230	7.7	8.2	•	•
125.6	0832	2300	7.0	24.5	•	3240	7.8	8.2	•	•
125.6	0830	2300	15.0	24.5	•	3360	7.8	8.0	•	•
125.6	0859	6000	•	•	•	2720	•	•	20.9	3.8
125.6	0857	6000	1.0	24.4	•	2720	7.8	8.6	17.4	4.0
125.6	0856	6000	12.0	24.4	•	2720	7.3	8.6	16.4	4.4
125.6	0855	6000	24.0	24.4	•	2730	7.8	8.6	18.0	3.7
125.6	0854	6000	30.0	24.4	•	2830	7.8	8.5	20.2	5.9

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 28, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE AT 25C	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-METRIC FLUORO-METRIC (UG/L)
179.5	1428	475	1.0	20.1	38	458	9.0	8.1	11.6	3.2
179.5	1427	475	9.0	19.6	•	459	8.6	8.1	•	•
179.5	1425	475	18.0	19.2	•	464	8.5	8.1	•	•
179.5	1423	475	•	•	•	•	•	12.8	3.2	•
179.5	1436	1175	1.0	20.2	38	458	9.0	8.1	•	•
179.5	1434	1175	9.0	19.7	•	461	8.8	8.1	•	•
179.5	1432	1175	18.0	19.2	•	462	8.3	8.1	•	•
179.5	1430	1175	•	•	•	•	•	15.2	7.6	•
173.7	1413	375	1.0	21.5	31	460	6.8	7.3	•	•
173.7	1412	375	16.0	21.1	•	462	6.2	7.3	•	•
173.7	1411	375	32.0	21.0	•	460	6.1	7.3	•	•
173.7	1409	375	•	•	•	•	•	19.9	8.1	•
173.7	1417	2800	1.0	21.2	30	445	7.4	7.6	•	•
173.7	1416	2800	7.0	21.1	•	445	7.1	7.5	•	•
173.7	1414	2800	12.0	22.6	•	458	6.7	7.3	14.2	6.2
170.4	1349	1200	1.0	22.6	28	458	6.7	7.3	•	•
170.4	1348	1200	12.0	21.8	•	462	6.4	7.3	•	•
170.4	1347	1200	25.0	21.1	•	459	5.9	7.3	•	•
170.4	1346	1200	•	•	•	•	•	16.4	8.8	•
170.4	1354	2100	1.0	23.8	24	458	7.1	7.3	•	•
170.4	1353	2100	12.0	21.5	•	457	6.2	7.3	•	•
170.4	1352	2100	23.0	21.1	•	458	5.9	7.2	•	•
170.4	1350	2100	30.0	•	•	•	•	16.6	7.3	•
168.0	1248	300	1.0	21.2	24	470	6.4	7.2	•	•
168.0	1247	300	6.0	21.2	•	466	6.3	7.1	•	•
168.0	1246	300	13.0	21.0	•	467	6.2	7.2	•	•
168.0	1245	300	1000	•	•	•	•	14.5	6.7	•
168.0	1256	1000	1.0	21.4	24	470	6.6	7.2	•	•
168.0	1254	1000	5.0	21.1	•	465	6.3	7.2	•	•
168.0	1252	1000	10.0	21.1	•	463	6.1	7.2	•	•
168.0	1250	1000	•	•	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 28, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25°C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-PHYTIN METRIC (UG/L)
168.0	1315	3100	1.0	21.0	35	455	6.3	7.2	24.0	5.3
168.0	1314	3100	1.0	20.9	456	6.0	7.2	7.2	•	•
168.0	1313	3100	16.0	20.8	449	6.1	7.2	7.2	•	•
168.0	1312	3100	32.0	20.8	•	•	•	23.6	4.9	•
168.0	1319	3800	1.0	21.0	34	457	6.4	7.2	•	•
168.0	1318	3800	1.0	20.9	447	6.4	7.2	7.2	•	•
168.0	1317	3800	15.0	20.9	448	6.3	7.2	7.2	•	•
168.0	1316	3800	30.0	20.9	•	•	•	•	•	•
165.6	1244	625	1.0	20.9	37	430	8.5	7.7	51.8	4.4
165.6	1243	625	15.0	20.6	•	433	7.2	7.4	•	•
165.6	1242	625	30.0	20.6	•	431	7.5	7.5	30.0	3.7
165.6	1241	625	16.0	21.0	•	449	7.2	7.4	•	•
165.6	1237	1600	1.0	21.0	34	447	7.4	7.6	29.0	4.0
165.6	1235	1600	5.0	20.9	•	•	•	•	•	•
165.6	1234	1600	2500	20.9	•	•	•	•	•	•
165.6	1232	1231	1.0	20.9	34	448	7.1	7.4	•	•
165.6	1230	2500	6.0	20.8	•	448	7.0	7.6	74.2	3.4
160.0	1200	300	1.0	20.5	21	407	9.9	8.6	•	•
160.0	1158	300	20.0	20.4	•	409	9.8	8.5	•	•
160.0	1157	300	38.0	20.4	•	410	9.8	8.5	101.2	11.6
160.0	1156	300	1000	20.4	•	•	•	•	•	•
160.0	1209	1000	1.0	20.6	21	419	10.4	8.6	•	•
160.0	1208	1000	15.0	20.4	•	421	9.7	8.4	•	•
160.0	1206	1000	31.0	20.4	•	411	9.8	8.6	•	•
160.0	1204	1000	2400	20.4	•	•	•	•	•	•
160.0	1212	2400	3.0	20.6	36	432	9.3	7.9	61.8	7.6
160.0	1210	2400	1350	20.6	•	•	•	•	107.1	11.6
157.0	1140	690	1.0	20.5	14	367	13.6	9.6	107.0	0.2
151.0	1131	690	8.0	20.4	•	366	13.5	9.6	•	•
151.0	1129	690	690	20.5	•	•	•	•	•	•
151.0	1128	690	8.0	20.4	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 28, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMMOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A (UG/L)	PHEO-FLUORO-METRIC (UG/L)	PHYTIN FLUORO-METRIC (UG/L)
151.0	1126	690	16.0	20.3	•	366	13.4	9.6	117.0	5.3	•
151.0	1123	2490	1.0	20.5	11	370	12.2	9.4	•	•	•
151.0	1122	2490	12.0	20.4	•	371	12.0	9.4	•	•	•
151.0	1121	2490	24.0	20.4	•	372	12.0	9.4	•	•	4.0
151.0	1120	2490	3500	20.5	•	377	12.4	9.4	•	•	•
151.0	1119	3500	1.0	20.5	12	376	12.2	9.3	•	•	•
151.0	1118	3500	6.0	20.5	•	378	12.1	9.3	•	•	•
151.0	1116	3500	12.0	20.5	•	•	•	183.2	2.9	•	•
151.0	1114	3500	5100	•	•	•	•	106.3	10.9	•	•
148.0	1050	•	•	•	•	•	•	•	•	•	•
144.0	1040	1710	1.0	20.4	11	360	12.3	9.6	•	•	•
144.0	1038	1710	7.0	20.4	•	360	12.1	9.6	•	•	•
144.0	1036	1710	35.0	20.4	•	360	12.1	9.6	•	•	•
144.0	1035	2940	•	•	•	•	•	146.4	29.1	•	•
144.0	1033	2940	1.0	20.3	8	362	11.8	9.7	•	•	•
144.0	1032	2940	17.0	20.3	•	361	11.6	9.7	•	•	•
144.0	1031	2940	35.0	20.4	•	359	11.5	9.6	•	•	•
144.0	1028	3480	•	•	•	•	•	130.0	8.1	•	•
144.0	1027	3480	1.0	20.2	12	369	11.9	9.8	•	•	•
144.0	1025	3480	17.0	20.2	•	366	11.8	9.7	•	•	•
144.0	1023	3480	35.0	20.1	•	363	11.7	9.7	•	•	•
144.0	1018	4140	•	•	•	•	•	125.1	0.9	•	•
144.0	1016	4140	1.0	20.1	12	379	13.9	9.9	•	•	•
144.0	1014	4140	8.0	20.1	•	377	13.8	9.8	•	•	•
144.0	1012	4140	15.0	20.0	•	388	14.0	9.9	•	•	•
138.9	0919	1200	•	•	•	•	•	88.4	9.2	•	•
138.9	0917	1200	1.0	20.0	11	410	10.0	9.6	•	•	•
138.9	0915	1200	8.0	20.0	•	408	10.1	9.6	•	•	•
138.9	0913	1200	16.0	20.0	•	400	10.1	9.6	•	•	•
138.9	0927	2340	1.0	20.3	10	370	10.7	9.6	139.5	9.0	•
138.9	0925	2340	18.0	20.3	•	368	10.6	9.6	•	•	•
138.9	0923	2340	23.0	20.3	•	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR SEPTEMBER 28, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (UMHOES AT 25C)	DISS OXYGEN (MG/L)	PH	PHEO-PHYTIN FLUOROMETRIC (UG/L)	
									PHE-A FLUOR-METRIC (UG/L)	PHYTIN FLUOR-METRIC (UG/L)
138.9	0921	2340	37.0	20.3	•	365	10.4	9.5	•	•
138.9	0933	3480	•	•	•	•	•	•	102.2	4.3
138.9	0931	3480	1.0	20.3	11	366	10.8	9.7	•	•
138.9	0930	3480	6.0	20.3	•	366	10.8	9.6	•	•
138.9	0929	3480	13.0	20.3	•	363	10.8	9.6	•	•
138.9	0938	5420	•	•	•	•	•	•	104.1	7.3
138.9	0937	5420	1.0	20.4	10	362	11.5	9.7	•	•
138.9	0936	5420	5.0	20.4	•	361	11.4	9.7	•	•
138.9	0935	5420	11.0	20.3	•	361	11.3	9.7	•	•
132.0	0830	3900	•	•	•	•	•	•	124.3	7.7
125.6	0811	2300	•	•	•	•	•	•	29.5	5.7
125.6	0809	2300	1.0	20.4	21	2370	8.5	8.9	•	•
125.6	0807	2300	9.0	20.5	•	2400	8.6	8.6	•	•
125.6	0805	2300	17.0	20.7	•	2640	8.4	8.4	•	•
125.6	0824	6000	•	•	•	•	•	•	54.1	5.9
125.6	0822	6000	1.0	20.7	15	1820	9.0	9.1	•	•
125.6	0820	6000	15.0	20.7	•	1900	8.8	9.0	•	•
125.6	0818	6000	28.0	20.7	•	1940	8.8	9.0	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR OCTOBER 10, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25°C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUOROPHOTOMETRIC METRIC (UG/L)		
									PHEO-	PHYTIN	FLUORO-
168.0	1310	3100	•	•	•	•	•	•	11.0	6.3	•
168.0	1309	3100	1.0	20.9	33	474	6.6	7.2	•	•	•
168.0	1308	3100	14.0	20.8	•	474	6.6	7.2	•	•	•
168.0	1306	3100	27.0	20.8	•	474	6.6	7.2	•	•	•
168.0	1314	3800	•	•	•	•	•	•	8.6	7.2	•
168.0	1313	3800	1.0	20.8	33	472	6.3	7.3	•	•	•
168.0	1312	3800	15.0	20.3	•	475	6.1	7.2	•	•	•
168.0	1311	3800	31.0	20.0	•	444	5.5	7.1	•	•	•
165.6	1250	625	•	•	•	•	•	•	8.0	4.8	•
165.6	1249	625	1.0	20.6	39	481	6.4	7.4	•	•	•
165.6	1248	625	15.0	20.6	•	483	6.5	7.3	•	•	•
165.6	1247	625	31.0	20.5	•	485	6.5	7.3	•	•	•
165.6	1244	1600	•	•	•	•	•	•	5.6	3.1	•
165.6	1243	1600	1.0	20.3	48	482	6.6	7.3	•	•	•
165.6	1242	1600	5.0	20.3	•	482	6.6	7.4	•	•	•
165.6	1241	2500	•	•	•	•	•	•	9.8	4.8	•
165.6	1240	2500	1.0	20.3	27	470	6.5	7.2	•	•	•
165.6	1238	2500	5.0	20.3	•	469	6.5	7.3	•	•	•
162.5	1227	2010	•	•	42	•	•	•	13.7	4.9	•
160.0	1202	300	•	•	•	•	•	•	14.5	4.2	•
160.0	1200	300	1.0	20.4	36	487	7.1	7.4	•	•	•
160.0	1159	300	15.0	20.4	•	487	7.0	7.3	•	•	•
160.0	1158	300	29.0	20.2	•	485	6.6	7.2	•	•	•
160.0	1208	1000	1.0	20.3	40	488	6.8	7.4	•	•	•
160.0	1206	1000	17.0	20.3	•	487	6.5	7.3	•	•	•
160.0	1204	1000	35.0	20.2	•	486	6.5	7.3	•	•	•
160.0	1210	2400	•	•	•	•	•	•	14.8	5.0	•
160.0	1212	2400	•	•	•	•	•	•	74.0	4.9	•
160.0	1211	2400	2.0	20.0	34	479	8.8	7.7	•	•	•
157.0	1153	1350	•	•	42	•	•	•	31.8	5.8	•
151.0	1132	690	•	•	•	•	•	•	64.7	7.2	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR OCTOBER 10, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (UMHOS AT 25°C)	DISS. OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)		
									PHEO-PHYTIN FLUORO-METRIC (UG/L)	METRIC (UG/L)	METRIC (UG/L)
151.0	1130	690	1.0	19.9	30	461	9.4	8.4	.	.	.
151.0	1128	690	6.0	19.9	.	461	9.3	8.3	.	.	.
151.0	1126	690	13.0	19.9	.	460	9.2	8.3	.	.	.
151.0	1125	2490	.	.	.	.	.	.	56.7	6.9	.
151.0	1124	2490	1.0	20.0	25	464	9.1	8.3	.	.	.
151.0	1122	2490	11.0	20.0	.	465	8.4	8.1	.	.	.
151.0	1120	2490	22.0	19.9	.	463	8.2	8.2	45.1	5.5	.
151.0	1115	3500	.	.	.	.	.	.	83.6	4.3	.
151.0	1114	3500	1.0	19.8	22	450	9.6	8.8	.	.	.
151.0	1112	3500	6.0	19.8	.	451	9.6	8.8	.	.	.
151.0	1110	3500	12.0	19.8	.	452	9.4	8.7	.	.	.
148.0	1116	5100	.	.	21	.	.	.	120.4	5.6	.
147.0	0834	.	1.0	19.7	.	302	8.6	8.9	.	.	.
147.0	0832	.	2.0	19.7	.	303	8.6	8.9	.	.	.
147.0	0830	.	1710	1.0	19.7	.	.	.	1180	27.9	.
144.0	1059	2940	12.0	19.7	12	454	11.1	9.6	.	.	.
144.0	1058	1710	1.0	19.7	.	454	10.9	9.5	.	.	.
144.0	1057	1710	5.0	19.7	.	454	10.9	9.5	.	.	.
144.0	1056	2940	.	.	.	423	11.2	9.2	139.2	1.5	.
144.0	1055	2940	1.0	19.8	15	425	10.8	9.2	.	.	.
144.0	1054	2940	25.0	19.6	.	423	10.7	9.1	145.0	5.7	.
144.0	1053	2940	34.80	.	.	416	10.5	9.3	145.0	5.5	.
144.0	1050	34.80	.	.	.	.	.	.	139.5	7.5	.
144.0	1049	34.80	1.0	19.8	15	425	10.8	9.2	.	.	.
144.0	1047	34.80	18.0	19.6	.	425	10.5	9.2	.	.	.
144.0	1045	34.80	36.0	19.4	.	438	10.6	9.3	155.7	6.8	.
144.0	1044	4140	.	.	.	.	.	.	.	.	.
144.0	1043	4140	1.0	19.5	11	510	11.5	9.5	.	.	.
144.0	1042	4140	10.0	19.5	.	520	11.2	9.5	.	.	.
144.0	1040	4140	22.0	19.5	.	522	10.8	9.4	.	.	.
141.5	1033	900	.	.	10	.	.	.	140.4	10.4	.
138.9	0956	1200	.	.	.	.	.	.	152.6	9.4	.

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR OCTOBER 10, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (MMHOES AT 25C)	DISS OXYGEN (MG/L)	PH	PHEO-PHYTIN FLUORO-METRIC (UG/L)	
									CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)
138.9	0954	1200	1.0	19.5	12	450	11.3	9.5	.	.
138.9	0952	1200	8.0	19.4	.	475	11.1	9.5	.	.
138.9	0950	1200	16.0	19.3	.	492	10.8	9.4	.	.
138.9	1009	2340	.	.	.	.	.	.	145.7	13.3
138.9	1008	2340	1.0	19.7	11	446	11.2	9.4	.	.
138.9	1006	2340	20.0	19.6	.	538	10.4	9.3	.	.
138.9	1004	2340	39.0	19.5	.	570	10.4	9.3	164.9	6.3
138.9	1017	3480	.	.	.	.	.	.	205.9	9.8
138.9	1016	3480	1.0	19.7	11	712	10.9	9.5	.	.
138.9	1014	3480	5.0	19.6	.	710	10.4	9.4	.	.
138.9	1012	3480	11.0	19.6	.	706	10.1	9.4	.	.
138.9	1023	5420	.	.	.	.	.	.	146.4	7.9
138.9	1021	5420	1.0	19.9	10	663	11.1	9.6	.	.
138.9	1019	5420	6.0	19.7	.	669	10.4	9.5	.	.
138.9	1018	5420	12.0	19.6	.	709	10.2	9.5	.	.
132.0	0935	3900	.	.	.	.	.	.	130.5	6.0
125.6	0906	2300	.	.	.	.	.	.	37.2	4.8
125.6	0904	2300	1.0	19.3	23	3060	8.2	8.5	.	.
125.6	0902	2300	7.0	19.3	.	3140	7.9	8.3	.	.
125.6	0900	2300	15.0	19.8	.	4290	7.1	7.5	.	.
125.6	0926	6000	.	.	.	.	.	.	60.3	6.8
125.6	0924	6000	1.0	19.3	15	2210	9.5	9.1	67.4	4.9
125.6	0922	6000	13.0	19.5	.	2350	8.5	8.9	58.0	6.4
125.6	0920	6000	26.0	19.6	.	2420	8.2	8.8	51.8	5.2

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR OCTOBER 27, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (MUMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-PHYTIN FLUORO-METRIC (UG/L)
165.6	1659	625	1.0	13.9	22	391	9.3	7.5	3.1	6.0
165.6	1657	625	10.0	13.8	-	394	9.3	7.5	2.2	3.5
165.6	1656	625	20.0	13.7	-	397	9.8	7.6	2.3	3.9
165.6	1655	625	28.0	13.6	-	398	10.1	7.5	2.8	6.0
165.6	1654	625	-	-	-	-	-	-	3.1	7.0
165.6	1707	1600	-	-	-	-	-	-	2.5	4.5
165.6	1705	1600	3.0	13.3	22	398	10.2	7.7	-	-
165.6	1717	2500	-	-	-	-	-	-	1.6	4.7
165.6	1715	2500	2.0	13.2	30	397	10.2	7.7	-	-
160.0	1644	650	-	-	22	-	-	-	2.2	4.7
151.0	1626	690	-	-	-	-	-	-	5.0	3.0
151.0	1624	690	1.0	14.1	36	370	8.9	7.5	-	-
151.0	1622	690	8.0	14.0	-	361	8.8	7.6	-	-
151.0	1620	690	16.0	13.9	-	360	8.8	7.5	-	-
151.0	1614	2490	-	-	-	-	-	-	5.6	5.1
151.0	1613	2490	1.0	13.8	27	344	8.9	7.6	3.3	4.3
151.0	1612	2490	9.0	13.8	-	345	8.9	7.6	4.2	5.1
151.0	1611	2490	18.0	13.9	-	350	8.8	7.5	7.1	6.8
151.0	1610	2490	23.5	13.9	-	353	8.7	7.6	7.7	10.5
151.0	1608	3500	-	-	-	-	-	-	7.2	3.0
151.0	1607	3500	1.0	14.2	46	378	8.8	7.4	-	-
151.0	1605	3500	14.0	14.2	-	368	8.7	7.6	-	-
148.0	1535	5100	-	-	36	-	-	-	8.0	4.3
147.0	1033	-	1.0	13.0	12	226	8.9	7.2	-	-
147.0	1032	-	5.0	13.1	-	225	9.2	7.1	-	-
144.0	1509	1710	-	-	-	-	-	-	35.0	6.2
144.0	1507	1710	1.0	14.7	25	442	9.6	7.7	-	-
144.0	1505	1710	5.0	14.5	-	442	9.5	7.7	-	-
144.0	1517	2940	1.0	14.8	30	440	9.2	7.7	30.5	5.9
144.0	1516	2940	-	-	-	-	-	-	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR OCTOBER 27, 1983

IN THE TIDAL POTOMAC RIVER									
DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)
146.0	1514	2940	10.0	14.9	-	437	9.1	7.7	-
144.0	1512	2940	20.0	14.9	-	438	9.1	7.7	-
144.0	1510	2940	28.5	14.9	-	437	9.0	7.5	-
144.0	1524	3480	-	-	-	-	-	26.0	4.4
144.0	1523	3480	1.0	14.8	30	426	8.5	7.6	5.7
144.0	1522	3480	10.0	14.8	-	427	8.5	7.6	24.8
144.0	1521	3480	21.0	14.8	-	427	8.7	7.7	25.0
144.0	1520	3480	31.0	14.8	-	427	8.7	7.6	33.4
144.0	1528	4140	-	-	-	-	-	29.0	3.7
144.0	1527	4140	1.0	14.7	36	423	8.6	7.6	-
144.0	1526	4140	12.0	14.7	-	417	8.7	7.6	-
144.0	1525	4140	24.0	14.6	-	405	8.8	7.6	-
141.5	1457	900	-	-	31	-	-	44.8	3.8
138.9	1406	1200	-	-	-	-	-	40.7	3.5
138.9	1404	1200	1.0	14.8	31	442	9.5	7.8	-
138.9	1402	1200	11.0	14.8	-	442	9.4	7.8	-
138.9	1400	1200	22.5	14.7	-	442	9.4	7.7	-
138.9	1414	2340	-	-	-	-	-	42.5	4.0
138.9	1413	2340	1.0	14.9	-	442	9.3	7.8	43.5
138.9	1412	2340	10.0	14.9	-	442	9.2	7.9	42.0
138.9	1411	2340	24.0	14.9	-	442	9.2	7.8	42.3
138.9	1410	2340	34.0	14.9	-	443	9.2	7.7	45.9
138.9	1429	3480	-	-	-	-	-	60.3	5.2
138.9	1427	3480	1.0	14.8	22	445	10.3	8.5	-
138.9	1425	3480	11.0	14.9	-	445	10.2	8.4	-
138.9	1437	5420	-	-	-	-	-	55.2	6.1
138.9	1435	5420	1.0	14.8	36	445	10.2	8.3	-
138.9	1433	5420	11.0	14.8	-	444	10.2	8.1	-
130.0	1345	2640	-	-	19	-	-	58.0	2.7
125.6	1326	2300	-	-	-	-	-	84.2	6.0
125.6	1324	2300	1.0	14.5	12	1847	10.2	9.2	-
125.6	1322	2300	10.0	14.7	-	1847	10.0	9.2	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR OCTOBER 27, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMMOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-PHYTIN METRIC (UG/L)
125.6	1320	2300	20.0	14.7	-	1877	10.0	9.2	90.9	7.8
125.6	1312	6000	1.0	14.7	10	1281	10.0	9.3	81.1	7.7
125.6	1310	6000	10.0	14.7	-	1340	9.8	9.3	81.2	10.0
125.6	1308	6000	21.0	14.9	-	1990	9.4	9.1	61.8	8.0
125.6	1306	6000	31.0	14.8	-	2230	9.0	9.0	68.9	9.9
125.6	1304	6000	-	-	-	-	-	-	-	-
116.7	1156	2000	1.0	14.8	18	3470	9.5	8.7	24.8	3.6
116.7	1154	2000	15.0	14.8	-	3490	9.4	8.7	-	-
116.7	1152	2000	27.5	14.8	-	3500	9.4	8.6	-	-
116.7	1150	2000	-	-	-	-	-	-	32.6	4.3
116.7	1216	11600	1.0	14.8	-	3580	9.4	8.6	-	-
116.7	1214	11600	7.0	14.8	-	3580	9.5	8.6	-	-
116.7	1212	11600	14.5	14.8	-	3580	9.7	8.6	-	-
116.7	1210	11600	-	-	-	-	-	-	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR NOVEMBER 9, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (CUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)	PHEO-FLUORO-PHYTIN METRIC (UG/L)
165.6	1629	300	1.0	13.5	24	338	7.9	7.4	2.8	2.3
165.6	1628	300	12.0	13.1	•	331	8.0	7.4	•	•
165.6	1627	300	25.0	13.2	•	331	8.0	7.5	•	•
165.6	1625	1000	1.5	13.0	46	318	8.1	7.5	2.8	2.2
165.6	1622	1000	1.0	13.0	•	326	7.7	7.4	•	•
165.6	1620	1000	1.5	13.0	38	318	7.9	7.5	2.5	1.8
165.6	1617	2400	1.0	13.2	•	341	8.1	7.5	•	•
165.6	1615	2400	9.0	13.0	•	341	8.1	7.4	•	•
165.6	1613	2400	650	•	43	341	9.0	7.5	•	•
160.0	1605	690	•	•	•	341	9.0	7.7	2.8	2.8
151.0	1557	690	1.0	12.4	42	343	9.7	7.9	32.3	4.1
151.0	1555	690	5.0	12.3	•	342	9.0	7.8	•	•
151.0	1553	690	14.0	12.1	•	341	9.0	7.7	•	•
151.0	1551	2490	1.0	12.0	28	334	8.4	7.6	•	•
151.0	1548	2490	11.0	12.0	•	334	8.3	7.6	•	•
151.0	1546	2490	22.5	12.0	•	335	8.4	7.7	33.5	6.5
151.0	1544	2490	3500	•	•	341	8.8	7.7	29.4	6.5
151.0	1542	2490	3500	1.0	12.5	341	8.8	7.6	•	•
151.0	1539	3500	11.0	12.4	•	341	8.8	7.8	67.4	3.8
151.0	1537	3500	22.5	12.0	•	362	13.8	9.0	97.5	5.5
151.0	1535	3500	3500	1.0	48	341	8.8	7.7	•	•
148.0	1530	5100	•	•	26	341	8.8	7.8	•	•
144.0	1527	1710	2.0	12.2	26	362	13.8	9.0	87.0	6.3
144.0	1525	1710	2940	•	•	359	12.4	8.7	•	•
144.0	1518	2940	1.0	12.0	26	362	12.3	8.8	•	•
144.0	1516	2940	12.0	12.1	•	362	12.4	8.7	•	•
144.0	1514	2940	23.5	12.0	•	362	12.4	8.7	55.1	5.8
144.0	1512	2940	3480	1.0	11.8	364	10.7	8.5	•	•
144.0	1510	3480	16.0	11.7	•	365	10.5	8.5	•	•
144.0	1509	3480	16.0	11.7	•	•	•	•	•	•
144.0	1507	3480	•	•	•	•	•	•	•	•

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR NOVEMBER 9, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	CONDUCTANCE (MUMHOS AT 25C)	DISS OXYGEN (MG/L)	PH	CHL-A FLUORO-METRIC (UG/L)			PHEO-PHYTIN FLUORO-METRIC (UG/L)		
									CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)	CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)
144.0	1505	3480	32.0	11.7	-	366	10.7	8.6	60.1	5.2	-	-	-	-
144.0	1501	4140	1.	-	-	-	-	-	-	-	-	-	-	-
144.0	1459	4140	1.0	12.3	23	363	12.0	8.9	-	-	-	-	-	-
144.0	1457	4140	10.0	12.2	-	367	11.7	8.8	-	-	-	-	-	-
144.0	1455	4140	19.0	12.3	-	367	11.7	8.8	-	-	-	-	-	-
141.5	1450	900	-	-	23	-	-	-	-	-	-	-	-	-
138.9	1410	1200	-	-	-	-	-	-	-	-	-	-	-	-
138.9	1409	1200	1.0	12.4	30	375	11.3	8.7	-	-	-	-	-	-
138.9	1407	1200	9.0	11.8	-	376	10.3	8.5	-	-	-	-	-	-
138.9	1405	1200	17.0	11.7	-	376	10.4	8.5	-	-	-	-	-	-
138.9	1419	2340	1.	-	-	-	-	-	-	-	-	-	-	-
138.9	1418	2340	1.0	12.1	30	375	11.3	8.7	-	-	-	-	-	-
138.9	1417	2340	12.0	11.8	-	375	10.3	8.5	-	-	-	-	-	-
138.9	1415	2340	25.0	11.7	-	375	10.3	8.5	-	-	-	-	-	-
138.9	1413	2340	34.5	11.7	-	375	10.3	8.5	-	-	-	-	-	-
138.9	1436	3480	1.	-	-	-	-	-	-	-	-	-	-	-
138.9	1434	3480	1.0	12.3	24	373	11.7	8.8	-	-	-	-	-	-
138.9	1432	3480	5.0	12.1	-	374	11.5	8.8	-	-	-	-	-	-
138.9	1430	3480	10.0	12.1	-	374	11.5	8.8	-	-	-	-	-	-
138.9	1446	5420	-	-	-	-	-	-	-	-	-	-	-	-
138.9	1444	5420	1.0	12.0	24	390	12.1	9.1	-	-	-	-	-	-
138.9	1442	5420	5.0	11.7	-	392	11.9	9.2	-	-	-	-	-	-
138.9	1440	5420	11.0	11.6	-	393	11.8	9.2	-	-	-	-	-	-
132.0	1350	3900	-	-	24	-	-	-	-	-	-	-	-	-
125.6	1320	2300	-	-	-	-	-	-	-	-	-	-	-	-
125.6	1319	2300	1.0	12.3	25	675	8.8	8.5	-	-	-	-	-	-
125.6	1317	2300	10.0	12.2	-	703	8.7	8.5	-	-	-	-	-	-
125.6	1315	2300	19.0	12.3	-	720	8.7	8.5	-	-	-	-	-	-
125.6	1341	6000	-	-	-	-	-	-	-	-	-	-	-	-
125.6	1339	6000	1.0	12.8	22	550	10.0	9.0	-	-	-	-	-	-
125.6	1338	6000	10.0	12.4	-	580	9.4	8.9	-	-	-	-	-	-
125.6	1337	6000	20.0	12.3	-	615	9.3	8.9	-	-	-	-	-	-

TABLE 7 --cont.
FIELD PARAMETER RESULTS
FOR NOVEMBER 9, 1983
IN THE TIDAL POTOMAC RIVER

DISTANCE FROM RIVER MOUTH (KM)	TIME (24 HOUR CLOCK)	FEET FROM LEFT BANK	DEPTH (FEET)	TEMP (DEG C)	SECCHI DEPTH (IN)	DUCTANCE (UMHOS AT 25C)	DISS OXYGEN (MG/L)	pH	CHL-A FLUORO-METRIC (UG/L)	PHEO-PHYTIN FLUORO-METRIC (UG/L)
125.6	1335	6000	28.0	12.3	30	623	9.3	8.9	89.3	16.5
120.0	1300	1500	-	-	-	-	-	-	12.4	5.0
116.7	1251	2000	-	-	-	-	-	-	7.2	3.4
116.7	1250	2000	1.0	13.0	24	2220	8.8	8.3	15.9	3.8
116.7	1249	2000	10.0	12.1	-	2980	8.6	8.0	4.6	3.2
116.7	1248	2000	20.0	12.2	-	3920	8.4	7.7	5.0	3.4
116.7	1247	2000	26.5	12.3	-	4000	8.4	7.7	7.6	3.6
116.7	1256	11600	-	-	-	-	-	-	25.6	9.6
116.7	1254	11600	1.0	13.6	22	1410	9.4	8.7	-	-
116.7	1253	11600	7.0	12.2	-	1770	8.9	8.5	-	-
116.7	1252	11600	14.0	12.1	-	1800	8.9	8.5	-	-
112.0	1215	1350	-	-	-	-	-	-	3.7	3.4
108.0	1150	2040	-	-	42	-	-	-	5.7	2.4
108.0	1148	2040	1.0	12.8	34	4570	8.9	7.7	9.5	2.5
108.0	1147	2040	8.0	12.5	-	5570	8.9	7.5	7.2	2.8
108.0	1146	2040	17.0	12.3	-	6310	8.6	7.4	2.2	3.0
108.0	1145	2040	22.0	12.2	-	6380	8.5	7.4	2.3	3.3
108.0	1211	7500	-	-	-	-	-	-	3.7	3.6
108.0	1209	7500	1.0	12.8	27	3980	8.7	7.6	-	-
108.0	1207	7500	8.0	12.1	-	4330	8.5	7.6	-	-
108.0	1205	7500	16.0	12.4	-	5840	8.6	7.4	-	-

Table 8.--Phytoplankton enumeration and identification

TABLE 3

AUGUST 3, 1993	CHN	MEM	GES	MAR	ALEXAND MD	ROS VA	HAT	MHL	HAL	IHD	QNT
CHLOROPHYCEAE:											
Ankistrodesmus falcatus	546	214	112	48	0	25	0	0	65	0	67
nannoseilane	854.	2213	898	405	65	127	0	0	33	0	0
spp	137	0	37	0	0	0	0	0	0	0	0
Botryococcus spp	0	4641	0	0	0	0	0	0	0	0	0
Carteria spp	0	0	0	0	0	0	0	0	0	0	0
Chetosphaeridium	0	0	0	24	0	0	0	0	0	0	0
Chloracium immeticum	0	0	0	0	0	0	0	0	0	0	0
Unlamycomonas spp	239	286	75	24	65	51	0	0	35	0	57
Unicella-like spp	273	1142	224	190	65	51	143	33	68	86	33
Chiorella ellipsoidea	0	0	143	0	0	0	0	0	0	0	0
spp	0	0	0	37	0	98	51	0	68	0	0
Chlorogonium spp	0	0	0	0	0	0	0	0	0	0	0
Coatella quadriseta	239	0	0	0	0	0	0	0	0	0	0
Coelastrum cambrium	0	0	0	381	262	0	0	0	0	0	0
spp A	341	4570	2394	1714	262	0	0	0	0	0	267
sp 3	0	571	0	0	0	0	0	0	0	0	228
Losmarium spp	0	0	0	0	0	0	0	0	0	0	0
Crucigenia crucifera	137	71	0	0	0	0	0	0	203	0	0
Quedratia	0	0	0	95	0	0	0	0	0	0	0
rectangulata	0	0	0	0	0	0	0	0	0	0	0
Dicytosphaerium enredigerianum	2166	286	748	571	131	0	143	0	0	0	0
eudorina elegans	0	571	75	0	0	0	0	0	0	0	0
Franceia droescheri	0	2285	0	0	0	0	0	0	0	0	0
ovalis	0	0	0	0	0	0	0	0	0	0	0
Solenkia radiatum	0	0	0	0	0	0	0	0	0	0	0
Uomphosphaeria spp	63	0	0	0	0	0	0	0	0	0	0
Kirchneriella iunaria	0	2499	374	119	0	0	127	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0
Lagerheimia suosalae	63	571	112	24	0	0	25	0	0	0	29
subsalae V	0	0	0	0	0	0	0	0	0	0	0
Micractinium pusillum	0	143	0	0	0	0	262	0	0	0	131
Jocystis pusilla	68	214	150	95	0	0	0	0	0	0	28
spp	0	0	0	0	0	0	0	0	0	0	0
sp colony	0	0	0	0	0	0	0	0	0	0	0
Pandorina morum	0	0	0	0	0	0	0	0	0	0	0
Pediastrum doryanum	0	0	0	0	0	0	0	0	0	0	0
duplex	0	0	0	75	0	0	0	0	0	0	267
Integrum	0	0	0	0	0	0	0	0	0	0	0
Simolex var duodenarium	0	0	0	0	0	0	0	0	0	0	0
Polycladon umbrinus	0	0	0	0	0	0	0	0	0	0	0

TABLE 8 --cont.

AUGUST 5, 1935	CHN	MEM	GES	MAR	STATIONS						QNT	
					ALEXAND	ROS	HAT	MHL	HAL	IHD		
<i>Scenedesmus abundans</i> v arcuatus	0	0	0	0	0	51	0	0	0	0	0	0
<i>bicaudatus</i> var bijuga	0	236	0	0	0	0	0	0	0	0	0	0
<i>denticulatus</i>	68	428	374	476	294	177	0	0	0	137	0	0
<i>dimorphus</i>	0	2428	898	238	0	0	51	0	0	55	0	0
<i>intermedius</i>	0	0	150	0	0	0	0	0	0	0	0	0
<i>quadricauda</i>	137	1142	0	0	0	0	0	0	0	65	0	228
spp	1776	2570	636	95	0	76	0	0	0	131	273	114
<i>Schroederia setigera</i>	0	143	0	0	0	0	0	0	0	0	0	0
<i>Spermatozoopsis exultans</i>	0	71	0	0	0	25	0	0	0	0	0	100
<i>Staurastrum</i> spp	307	143	112	214	1930	1393	0	0	0	2949	262	29
<i>Tetraedron caudatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>muticum</i>	0	71	75	0	33	0	0	0	0	28	33	0
<i>regulare</i>	0	0	0	0	0	0	0	0	0	33	0	33
<i>tritonum</i>	0	357	0	0	24	0	0	0	0	0	0	0
<i>Tetrastrum elegans</i>	0	0	0	0	0	0	101	0	0	0	0	0
<i>staurogeniforme</i>	157	0	0	0	0	0	0	0	0	0	273	0
unknown Phacotaceae	0	0	0	0	0	0	0	0	0	0	0	0
unknown Green colony	0	0	37	0	0	0	0	0	0	0	0	0
unknown Yren cell	0	71	0	0	53	0	0	0	0	0	0	0
zoospore?	34	0	0	0	0	0	0	0	0	0	0	0
CHYTROPHYCEAE:												
<i>Chromulina microplankton</i>	0	0	37	24	327	0	0	0	0	785	386	0
<i>Chrysopsis</i> spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ochromonas mannos</i>	0	0	0	0	0	0	0	0	0	0	0	0
DACILLARIOPHYCEAE:												
<i>Coccconeis diminuta</i>	68	0	37	0	0	0	0	0	0	0	0	0
spp	0	357	224	24	0	0	0	0	0	36	0	67
<i>Cyclotella</i> spp	0	0	286	98	101	0	0	0	0	0	0	0
<i>Fragilaria</i> spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gyrosigma</i> spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melosira granulata</i>	0	0	898	119	0	0	0	0	0	193	0	683
<i>islandica</i>	0	0	598	643	1767	2406	964	1047	1047	2527	1999	134
spp	0	143	524	1666	262	836	0	55	0	0	0	969
<i>Navicula closterium</i>	0	0	0	0	0	0	0	0	0	0	0	0
spp	171	143	0	48	0	0	0	0	0	0	0	0
<i>Nitzschia palea-type</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>sigmoides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>tryblionella</i> var	0	0	0	0	0	0	0	0	0	0	0	0
spp	34	571	224	0	0	0	0	25	0	0	33	68
<i>Pleurosigma</i> spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhizosolenia</i> spp cyst	0	0	0	0	24	0	0	0	0	0	0	0
<i>Stephanodiscus</i> spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>Synedra delicatissima</i>	0	71	0	0	0	0	0	0	0	0	0	0
unknown centric diatom	410	1999	1459	595	229	177	36	28	0	0	0	100
unknown pinnate diatom												

TABLE 8 --cont.

STATIONS											QNT
AUGUST 3, 1935	CHN	MEM	GES	MAR	ROS	ALEXAND	HAL	MHL	HAT	IHD	
	md	md	md	md	va	md	va	md	hal	md	
CYANOPHYCEAE:											
<i>Anabaena affinis</i>	0	0	0	0	0	0	0	0	0	0	100
<i>circinalis</i>	0	0	0	0	0	0	0	0	0	0	0
<i>flos-aquae var intermedia</i>	0	0	0	0	0	0	0	0	9423	3278	0
<i>f. sphaeroides</i>											1604
<i>halicoides</i>	0	0	0	0	0	0	0	0	0	0	0
<i>planctonica</i>	0	0	0	0	0	0	0	0	0	0	0
<i>sphaeroides var crassa</i>	0	0	0	0	0	0	0	0	0	0	0
<i>sphaeroides var minor</i>	0	0	0	0	0	0	0	0	0	0	0
<i>aphanocapsa</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>aphanothecace</i> nidulans	0	0	0	0	0	0	0	0	0	0	0
<i>nitidum</i>	0	0	0	0	0	0	0	0	0	0	0
<i>aphanozomanon flos-aquae</i>	0	0	0	0	0	0	0	0	0	0	0
<i>chroococcus dispersus</i>	137	0	0	0	0	0	0	0	0	0	0
<i>dispersus var minor</i>	9562	10353	0919	4046	2290	1140	357	0	276	982	633
<i>minutus</i>	0	426	0	0	0	0	0	0	0	0	0
<i>Merismopedia tenuissima</i>	5404	21706	8976	3046	1047	1216	1142	0	386	3076	956
<i>Microcytis aeruginosa</i>	0	0	0	0	0	0	0	0	0	0	0
<i>lincarta</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Oscillatoria</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Phormidium mucicola</i>	0	0	0	0	0	0	0	0	26	491	1024
<i>Pseudoeanophora</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Rhabdodarma</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Spirulina princeps</i>	0	0	0	0	0	0	0	0	0	0	0
CRYPTOPHYCEAE:											
<i>Chromonias amphioxaea</i>	34	0	0	0	0	0	0	0	0	0	0
<i>caroliniana</i>	410	214	0	24	98	76	36	0	220	33	68
<i>minuta</i> V	0	143	37	48	0	51	0	0	193	98	68
<i>Cryptomonas acuta</i>	0	0	0	0	0	0	0	0	0	0	0
<i>caudata</i>	102	357	112	0	196	25	0	0	33	68	29
<i>erosa</i>	0	0	224	24	33	76	36	28	98	68	67
<i>erosa var reflexa</i>	0	71	0	0	0	0	0	0	0	0	0
<i>marssonii</i>	0	0	0	0	0	0	0	0	0	0	0
<i>phaseolus</i>	0	0	0	0	24	0	0	0	0	0	0
<i>pusilla</i>	0	0	0	0	0	0	0	0	0	0	0
<i>pyrenoidifera</i>											
<i>salina</i>	0	0	0	0	0	0	0	0	0	0	0
<i>tenuis</i>	0	0	0	0	0	0	0	0	0	0	0
<i>spp</i>											
<i>Hemiselmis virescens</i>	0	0	0	0	0	0	0	0	0	0	0
EUGLENOPHYCEAE:											
<i>Euglena</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Phacus limmermani</i>	0	0	0	0	0	0	0	0	0	0	0
<i>triquerter</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Eutreptia viridis</i>	0	0	0	0	0	0	0	0	0	0	0
DINOPHYCEAE:											
<i>Glenodinium</i> spp	0	0	0	0	0	0	0	0	0	0	0

TABLE 3 --cont.

	AUGUST 24, 1983	CHN	MEM	GES	MAR	STATIONS				HAL	IHD	QNT
						ALEXAND nd va	ROS	HAT	MHL			
Symnodium spp	0	0	0	0	0	33	0	0	0	0	0	0
Peridinium cinctum	0	0	0	0	0	0	0	0	0	0	0	0
Pusillum spp	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
PRASINOPHYCEAE:												
Pyramimonas micron	0	0	0	0	0	0	0	0	0	0	0	0
plurioculata	0	0	0	0	0	0	0	0	0	0	0	0
FLAGELLATES												
Unidentified flagellates	0	0	0	0	0	0	0	0	0	0	0	0
micro flagellates	0	286	187	167	262	552	321	606	229	137	0	167
UNKNOWN:												
cells	0	0	0	0	0	0	0	0	28	0	0	0
spores	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTALS:												
CHLOROPHYCEAE	7956	28130	7743	4737	4384	2534	6412	3060	819	955	1227	1102
CHRYSOPHYCEAE	0	0	37	24	327	0	785	386	0	0	0	0
BACILLARIOPHYCEA	683	3284	3964	3405	2356	3545	1036	1323	1080	3278	2057	1370
CYANOPHYCEAE:	15163	32773	15895	7140	3599	2359	1499	910	35143	178466	56348	25598
CRYPTOPHYCEAE	546	785	373	120	327	278	72	496	262	272	29	1437
EUGLENOPHYCEAE	0	0	0	0	0	0	0	0	0	0	0	0
DINOPHYCEAE	0	0	0	24	33	0	0	0	0	0	0	0
PRASINOPHYCEAE	0	0	0	0	0	0	0	0	0	0	0	0
FLAGELLATES	0	286	187	167	262	552	821	937	229	137	0	167
UNKNOWN	0	0	0	0	0	0	0	28	0	0	0	0
TOTALS (CELLS/ML)												
	24348	65256	28199	15617	11288	9245	10675	7140	37533	183108	59661	29674

TABLE 8--cont.

AUGUST 13, 1963	MEM	SES	MAR	STATIONS				QNT
				HAT	ROS	ALEXAND VIA	HAL	
CHLOROPHYCEAE:								
<i>Ankistrodesmus convolutus</i>	0	0	0	0	0	0	0	0
<i>falcatus</i>	440	71	57	3	30	50	29	112
<i>nannoselene</i>	2450	928	428	71	889	91	57	37
spp	0	0	0	0	60	0	0	29
<i>Sotrycococcus</i> spp	0	0	0	0	0	0	0	0
<i>Carteria</i> spp	0	0	0	0	0	0	0	0
<i>Chaetosphaeridium</i>	0	0	0	0	0	0	0	0
<i>Characium limneticum</i>	0	0	0	0	0	0	0	0
<i>Chlamydomonas</i> spp	126	143	0	0	30	30	30	86
<i>Uniorizella-like</i> spp	0	214	236	107	59	121	57	37
<i>Uniorizella ellipsoidea</i>	36	0	0	36	0	0	0	0
<i>Chlorogonium</i> spp	0	0	0	0	0	0	0	0
<i>Closteriosis longissima</i>	0	0	0	0	0	0	0	0
<i>Closterium</i> spp	0	0	0	0	0	0	0	0
<i>Codiella quadriseti</i>	0	0	0	0	0	0	0	0
<i>Coelastrum cambrium</i>	0	0	0	0	0	0	0	0
spp A	2199	1144	1824	286	1656	1936	434	42
spp à	0	563	1824	0	0	0	0	0
<i>Coelosphaerium nageleianum</i>	0	0	0	0	0	0	0	0
<i>Coemeriun</i> spp	0	0	0	0	0	0	0	0
<i>Crucigenia crucifera</i>	0	0	0	0	0	0	0	0
<i>divergens</i>	0	0	0	0	0	0	0	0
<i>quadrate</i>	0	36	0	0	0	0	0	0
<i>rectangularis</i>	1508	284	1828	176	1396	1596	434	42
<i>tetraedria</i>	0	571	0	0	0	0	0	0
<i>Dictyosphaerium armstrongianum</i>	0	71	0	0	0	0	0	0
<i>Jinobrych davuricum</i>	0	0	0	0	0	0	0	0
<i>Eudorina elegans</i>	1005	0	0	0	0	0	0	0
<i>Frenaria droescheri</i>	0	0	0	0	0	0	0	0
<i>Ovulas</i>	0	0	0	0	0	0	0	0
<i>Sphaerostis</i> spp	36	0	0	0	0	0	0	0
<i>Golenkinia radiatum</i>	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0
<i>Compsophenia</i> spp	0	0	0	0	0	0	0	0
<i>Cyonium pectorale</i>	0	0	0	0	0	0	0	0
<i>Sociale</i>	0	0	0	0	0	0	0	0
<i>Kirchneriella lunaris</i>	528	942	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0
								143

TABLE 3 --cont.

STATIONS										QNT
AUGUST 10, 1953	MEM	GES	MAR	ROS	ALEXAND	VÄ	HAL	IHD	QNT	
<i>Lagerheimia subsalsae</i>	628	143	0	107	267	151	0	0	0	
<i>subsalsae</i> var	0	0	228	0	0	0	0	0	0	
<i>Miractinium pusillum</i>	0	0	0	0	0	0	0	0	0	
<i>quadrisetatum</i>	0	0	0	0	0	0	0	0	0	
<i>Oocystis pusilla</i>	0	0	0	0	0	0	0	0	0	
<i>spp colony</i>	0	0	0	0	0	0	0	0	0	
<i>Pandorina morum</i>	0	0	0	0	0	0	0	0	0	
<i>Pediastrum boryanum</i>	0	0	0	0	0	0	0	0	0	
<i>duplex</i>	0	0	0	0	0	0	0	0	0	
<i>integrum</i>	0	0	0	0	0	0	0	0	0	
<i>simplex</i>	0	0	0	0	0	0	0	0	0	
<i>simplex</i> var <i>duodenarium</i> .	0	0	0	0	0	0	0	0	0	
<i>tetras</i>	63	0	0	0	0	0	0	0	0	
<i>Polycladon umbrinum</i>	0	0	29	0	0	0	0	0	0	
<i>Pseudotetraedron neglectum</i>	0	0	29	0	0	0	0	0	0	
<i>Scenedesmus abundans</i> v	251	0	0	60	0	0	0	0	114	
<i>armatus</i>	0	0	228	0	118	242	0	0	0	
<i>bicaudatus</i> var <i>alternans</i>	503	0	0	0	0	0	0	0	0	
<i>bijuga</i>	126	1428	286	71	60	242	0	0	0	
<i>denticulatus</i>	0	0	342	0	0	484	0	0	0	
<i>dimorphus</i>	0	0	0	0	0	0	0	0	0	
<i>intermedius</i>	251	236	342	0	178	0	0	0	0	
<i>quadricauda</i>	5718	2712	2684	0	1778	1088	0	0	187	
<i>spp</i>	0	0	0	0	0	0	0	0	228	
<i>Schroederia setigera</i>	0	71	114	0	30	0	0	0	571	
<i>Selenastrum westii</i>	0	0	0	0	0	0	0	0	299	
<i>spp</i>	0	0	0	0	0	0	0	0	143	
<i>Spermatozopsis exultans</i>	126	107	400	0	0	0	0	0	0	
<i>Staurastrum spp</i>	0	0	0	0	0	0	0	0	0	
<i>Tetraedron caudatum</i>	0	0	0	0	0	0	0	0	0	
<i>minimum</i>	0	0	0	0	0	0	0	0	0	
<i>muticum</i>	63	0	0	0	0	0	0	0	0	
<i>pentadricum</i>	0	0	0	0	0	0	0	0	0	
<i>regulare</i>	0	0	0	0	0	0	0	0	0	
<i>trigonum</i>	0	0	0	0	0	0	0	0	0	
<i>Tetrastrum elegans</i>	0	0	0	0	0	0	0	0	0	
<i>staurogeniforme</i>	0	0	0	0	0	0	0	0	0	
<i>Trebaria triappendiculata</i>	0	0	0	0	0	0	0	0	0	
<i>unknown Phacotaceae</i>	0	0	0	0	0	0	0	0	0	
<i>unknown green colony</i>	0	0	0	0	0	0	0	0	0	
<i>unknown green cell</i>	0	0	0	0	0	0	0	0	0	
<i>zoospore</i>	0	0	0	0	0	0	0	0	0	
CHRYOSOPHYCEAE:										
<i>Chromulina micoplankton</i>	0	0	0	0	0	0	0	0	0	
<i>spp</i>	0	0	0	0	0	0	0	0	0	
<i>Chrysapäsis spp</i>	0	0	0	0	0	0	0	0	0	
<i>Ochromonas nannos</i>	0	0	0	0	0	0	0	0	0	

TABLE 3 ---cont.

STATIONS												
	MEM	GES	MAR	MD	ALEXAND	ROS	HAT	MHL	HAL	IHD	QNT	
August 12, 1953	0	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	0	
Unknown Chrysophyta												
SACILLARIOPHYCEAE:												
Coccconeis diminuta	63	0	86	0	0	0	0	0	0	0	0	
spp	0	0	29	0	0	0	0	0	0	0	0	
Cyclotella spp	503	464	286	107	148	242	29	29	29	29	228	
fragilaria spp	0	0	0	0	0	0	0	0	0	0	0	
Gyrosigma spp	0	0	0	0	0	0	0	0	0	0	0	
Melosira granulata	1499	657	36	474	3172	400	0	0	0	0	0	
granulata var angustissima	0	0	0	0	0	0	0	0	0	0	0	
islandica	0	0	971	3640	1003	3	1571	7069	0	0	0	
italicca	0	0	0	0	0	0	181	0	0	0	600	
spp	0	0	72	514	36	474	182	223	0	0	0	
Navicula closterium	0	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	0	
Nitzschia noisatiae	0	0	0	0	0	0	0	0	0	0	0	
palear-type	0	0	0	0	0	0	0	0	0	0	0	
sigmoidae	0	0	0	0	0	0	0	0	0	0	0	
tryblionella var	0	0	0	0	0	0	0	0	0	0	0	
spp	0	0	214	143	36	148	181	86	0	0	37	
Pleurosigma spp	0	0	0	0	0	0	0	0	0	0	29	
Rhizosolenia spp cyst	0	0	0	0	0	0	0	0	0	0	0	
Stephanodiscus spp	0	0	0	0	0	0	0	0	0	0	0	
Syneura delicatissima	0	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	0	
Unknown centric diatom	964	600	0	0	445	60	0	0	0	0	0	
unknown pennate diatom	71	114	0	0	59	0	0	0	0	0	0	
CYANOPHYCEAE:												
Anabaena affinis	0	0	0	0	0	0	0	0	0	0	0	
circinalis	0	0	0	0	0	0	0	0	0	0	286	
flos-aquae var intermedia	0	0	0	0	0	0	0	0	0	0	0	
f spiroides	0	0	0	0	0	0	0	0	0	0	187	
nelicoides	0	0	0	0	0	0	0	0	0	0	0	
planctonica	0	0	0	0	0	0	0	0	0	0	0	
spiroides var crassa	0	0	0	0	0	0	0	0	0	0	0	
spiroides var minor	0	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	0	
Aphanocapsa spp	0	0	0	0	0	0	0	0	0	0	0	
Aphanothecae nidulans	0	0	0	0	0	0	0	0	0	0	0	
nitidum	0	0	0	0	0	0	0	0	0	0	0	
Aphanozomomon flos-aquae	440	178	0	0	0	0	0	0	0	0	0	
spp	0	0	285	0	150	150	0	0	0	0	0	
Chroococcus dispersus	4034	180	715	178	1925	150	3570	3570	0	0	1346	
dispersus var minor	5341	1965	0	0	0	0	0	0	0	0	1171	
limneticus	0	0	0	0	0	0	0	0	0	0	0	
minutus	0	0	72	0	0	0	0	0	0	0	0	
planktonicus	0	0	0	0	0	0	0	0	0	0	0	
Gloecapsa rupestris	0	0	0	0	0	0	0	0	0	0	0	

TABLE 8 --cont.

	STATIONS										
	MEM	GES	MAR	MD	ALEXAND	ROS	HAT	MHL	HAL	IHO	QNT
AUGUST 10, 1903											
<i>Marismopedia tenuissima</i>	11058	5712	4112	571	2848	960	36560	1142	457	0	457
<i>Microcystis aeruginosa</i>	0	0	0	0	0	0	53350	169575	40698	121550	44982
<i>Incerta</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Oscillatoriaria articulata</i>	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0
<i>Phormidium mucicola</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudosanabaea</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Raphidiopsis curvata</i>	0	0	0	0	0	0	0	0	0	0	200
<i>Rhabdodermia</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Spirulina princeps</i>	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0
Unknown filament	0	0	0	0	0	0	0	0	0	0	0
CRYPTOPHYCEAE:											
<i>Unroomonas amphioxea</i>	0	0	0	0	0	0	0	0	0	0	0
<i>caroliniana</i>	0	0	0	0	0	0	0	0	0	0	29
<i>minuta</i> V	63	36	29	36	0	30	29	71	0	0	561
<i>Cryptomonas acute</i>	0	0	0	0	0	0	0	0	0	0	0
<i>caudata</i>	0	0	0	0	0	0	0	0	0	0	0
<i>erosa</i>	126	357	343	0	0	178	0	0	0	0	112
<i>erosa</i> var <i>reflexa</i>	63	357	57	0	0	89	30	0	0	0	0
<i>marsionii</i>	0	0	0	0	0	0	0	0	0	0	0
<i>phaseolus</i>	0	0	0	0	0	0	0	0	0	0	0
<i>pusilla</i>	691	71	114	36	0	89	60	71	0	0	37
<i>psuedobaitica</i>	0	71	0	143	0	0	0	0	0	0	571
<i>pyrenoidifera</i>	0	0	0	0	0	0	0	0	0	0	0
<i>salina</i>	0	0	0	0	0	0	0	0	0	0	0
<i>tenuis</i>	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0
<i>Hemiselmis virescens</i>											
EUGLENOPHYCEAE:											
<i>Euglena</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Eutreptia vivida</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Phacus limmermani</i>	0	0	0	0	0	0	0	0	0	0	0
<i>triquerter</i>	0	0	0	0	0	0	0	0	0	0	0
<i>tortus</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Trachelomonas</i> spp	0	0	0	0	0	0	0	0	0	0	0
DINOPHYCEAE:											
<i>Glenodinium</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Symnodinium</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Gyrodinium</i> estuarium	0	0	0	0	0	0	0	0	0	0	0
<i>pellucidum</i>	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0
<i>Hemidinium</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Peridinium cinctum</i>	0	0	0	0	0	0	0	0	0	0	0
<i>pusillum</i>	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	0	0	0	0	0	0	0	0	0	0	0

TABLE 8 --cont.

				STATIONS										
				MEM	GES	MAR	MD	ALEXAND VA	ROS	HAT	MHL	HAL	IHD	QNT
AUGUST 10, 1953				0	0	0	0	0	0	0	0	0	0	0
unknown Dinophyceae				0	0	0	0	0	0	0	0	0	0	0
PRASINOPHYCEAE:														
Pyramimonas micron				0	0	0	0	0	0	0	0	0	0	0
plurioculata				0	0	0	0	0	0	0	0	0	0	0
FLAGELLATES:														
unidentified flagellate				565	178	114	535	148	514	1428	500	57	75	200
micro flagellate				0	0	0	0	0	0	0	0	0	0	0
UNKNOWN:														
cells				0	0	0	36	0	91	0	0	0	0	0
spores				0	0	0	0	0	0	0	0	0	0	0
SUMTOTALS:														
CHLOROPHYCEAE				17027	9493	11042	4990	7557	6713	3370	1214	771	672	772
CHRYSOPHYCEAE				0	0	0	500	0	0	371	357	0	0	0
BACILLARIOPHYCEAE				529	4319	3400	3855	2756	4109	2314	7069	1857	1496	857
CYANOPHYCEAE				20923	8107	5112	749	5042	1471	94539	172573	44525	125327	49468
CRYPTOPHYCEAE				943	892	543	215	356	513	53	142	29	710	600
EUGLENOPHYCEAE				0	0	0	29	0	0	0	0	0	0	0
DINOPHYCEAE				0	0	0	0	0	0	30	0	0	0	0
PRASINOPHYCEAE				0	0	0	0	0	0	0	0	0	0	0
FLAGELLATES				565	178	114	535	148	514	1428	500	57	75	200
UNKNOWN				0	0	0	36	0	91	0	0	0	0	0
TOTALS(CELLS/ML)				40087	22989	20240	10836	15859	13441	102080	181855	47239	128280	51897

TABLE 8 ---cont.

AUGUST 17, 1983	STATIONS							QNT
	MEM	GES	MAR	MD	ALEXAND VA	ROS	HAT	
CHLOROPHYCEAE:								0
Ankistrodesmus convolutus	0	0	0	0	0	0	0	0
falcatus	0	0	181	48	95	0	0	72
nannostellene	571	554	502	143	143	250	0	0
spp	0	184	0	0	0	72	0	0
BOTRYOCCOCUS spp	0	0	0	0	0	0	0	0
Carteria spp	0	0	0	0	0	0	0	0
Chaetosphaeridium	0	0	0	0	0	0	0	0
Characium limneticum	0	0	0	0	0	0	0	0
Chlamydomonas spp	1785	277	121	143	333	214	0	360
Chlorella-like spp	571	416	60	143	48	56	0	288
Chlorella ellipsoidea	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0
Chlorogonium spp	0	0	0	0	0	0	0	0
Closteriopsis longissima	0	0	0	0	0	0	0	0
Closterium spp	0	0	0	0	0	0	0	0
Codatella quadrisseti	0	0	0	0	0	0	0	0
Coelastrum cambricum	0	0	0	0	0	0	0	0
spp A	0	0	0	0	0	0	0	0
spp ï	0	0	0	0	0	0	0	0
Coelosphaerium naegelianum	71	0	0	0	0	0	0	0
Cosmarium spp	0	0	0	0	0	0	0	0
Crucigenia crucifera	0	0	0	0	0	0	0	0
divaricens	0	0	0	0	0	0	0	0
quadrata	0	0	0	0	0	0	0	0
rectangularis	740	1932	0	0	1524	284	0	0
tetrapedia	0	0	0	0	0	0	0	0
Dictyosphaerium enrebergianum	0	0	0	0	0	0	0	0
Dinobryon bavaricum	0	0	0	0	0	0	0	0
Eudorina elegans	0	0	0	0	0	0	0	0
Franceia droescheri	0	0	0	0	0	0	0	0
ovalis	46	0	0	0	0	0	0	0
Gloeocystis spp	0	0	0	0	0	0	0	0
Goienkinia radiatum	143	0	0	0	0	48	0	48
spp	0	0	0	0	0	95	0	0
Gomphosphaeria spp	0	0	0	0	0	0	0	0
Gonium pectorale	0	0	0	0	0	0	0	0
sociale	0	0	0	0	0	0	0	0
Kirchneriella lunaris	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0
Lagerheimia subsalsa	236	185	0	0	0	0	0	52
subsalsa var	0	0	0	0	0	0	0	0
Miractinium pusillum	0	0	0	0	0	0	0	0
quadrisetum	0	0	0	0	0	0	0	0
Oocystis pusilla	0	0	0	0	0	0	0	0
spp colony	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0
Pandorina morum	0	0	0	0	0	0	0	95
Pediastrum boryanum	0	0	0	0	0	0	0	0
duplex	0	0	0	0	0	0	0	0
	2960	2416	0	0	0	0	0	4160

TABLE 8 --cont.

STATIONS	ROS	HAT	MHL	HAL	IND	QNT	AUGUST 17, 1953		MEM	GES	MAR	ALEXAND	md va
							MD	CD					
<i>integrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>var duodenarium</i>	0	0	242	0	190	0	0	0	0	0	0	0	0
<i>tetras</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>polycladon umbrinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudotetraedron neglectum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scenedesmus abundans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>varmatus</i>	0	0	242	0	0	0	0	0	0	0	0	0	0
<i>bicaudatus</i> var <i>alternans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>bijuga</i>	1428	1016	966	572	190	142	224	104	0	0	0	0	0
<i>denticulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>dimorphus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>intermedius</i>	1142	184	0	0	0	286	0	0	0	0	0	0	0
<i>quadricauda</i>	1714	1294	1450	285	190	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schroederia setigera</i>	71	46	00	0	95	0	0	0	0	0	0	0	0
<i>Selenastrum westii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	46	0	0	0	0	0	0	0	0
<i>Spermatophyton exultans</i>	0	92	60	2018	2047	3927	3527	314	48	0	0	0	72
<i>Staurastrum</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	576
<i>Tetraedron caudatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>minimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>muticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>pentadricum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>regulare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>trigonum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetraselmis elegans</i>	740	0	760	0	2000	0	0	0	0	0	0	0	0
<i>staurogeniforme</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trebaria triappendiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown Phaeophyceae	46	00	00	00	00	00	00	00	00	00	00	00	00
Unknown Green colony	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown Green cell	46	00	00	00	00	00	00	00	00	00	00	00	00
Zoospore	0	0	0	0	0	0	0	0	0	0	0	0	0
CHRYOSOPHYCEAE:													
<i>Chromulina microp plankton</i>	0	0	0	333	333	357	729	105	0	0	0	0	0
SPP	143	00	00	00	00	00	00	00	00	00	00	00	00
<i>Chrysopsis</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ochromonas nannos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown Chrysophyte	0	0	0	0	0	0	0	0	0	0	0	0	0
ZACILLARIOPHYCEAE:													
<i>Cocconeis diminuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
SPP	3570	416	1087	190	1000	214	0	0	0	0	0	0	0
<i>Cyclotella</i> spp	0	46	0	0	48	0	0	0	0	0	0	0	0
<i>Fragilaria</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Syrosigma</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melosira granulata</i>	357	1063	2779	238	1142	36	337	262	0	0	0	0	0

TABLE 8 --cont.

AUGUST 17, 1963		STATIONS										HAL	IMD	QNT
		MEM	GES	MAR	md	ALEXAND	ROS	HAT	MHL	HAL	HAL			
<i>granulata</i> v. <i>angustissima</i>	0	0	604	0	238	0	0	0	0	0	0	0	0	0
<i>islandica</i>	0	370	3427	5664	2332	3748	4483	3822	762	1352	0	0	0	0
<i>italica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
spp	5140	2310	2416	190	572	142	0	0	0	0	0	0	0	1152
<i>Navicula closterium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nitzschia noisatrica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
palear-type	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>sigmoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>tryblionella</i> var	0	0	0	0	0	0	0	0	0	0	0	0	0	0
spp	71	277	121	190	236	0	0	0	0	0	0	0	0	0
<i>Pleurosigma</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhizosolenia</i> spp cyst	0	0	60	0	0	0	0	0	0	0	0	0	0	0
<i>Stephanodiscus</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Synedra delicatissima</i>	0	0	92	0	0	0	0	0	0	0	0	0	0	0
spp	7711	2864	1087	476	904	214	0	0	0	0	0	0	0	0
unknown centric diatom	771	0	302	190	381	71	0	105	48	0	0	0	0	1512
unknown pennate diatom														288
CYANOPHYCEAE:														
<i>Anabaena affinis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>circinalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>flos-aquae</i> var <i>intermedia</i>	0	26592	0	0	0	0	0	0	0	22848	0	0	0	34560
f. <i>spirooides</i>														
<i>neilcoidea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>planctonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>spiroides</i> var <i>crassa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>spiroides</i> var <i>minor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aphanocapsa</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aphanothecace nidulans</i>	715	0	905	0	0	0	0	0	0	0	0	0	0	360
<i>nitidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	288
<i>Aphanozomanon flos-aquae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chroococcus dispersus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	720
<i>disparsus</i> var <i>minor</i>	3570	1615	300	0	950	535	560	525	240	1040	0	0	0	1800
<i>limneticus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>minutus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>planktonicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gloeocapsa rupestris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Merismopedia tenuissima</i>	36560	36960	3872	24368	24368	0	0	0	0	181950	174925	496600	124200	4608
<i>Microcystis aeruginosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>incerta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oscillatoria articulata</i>	0	601	0	0	0	0	0	0	0	0	0	0	0	0
spp	416	1027	333	333	36	0	0	0	0	209	286	520	504	0
<i>Phormidium mucicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudoanabaena</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0	72
<i>Raphidiopsis curvata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	832
<i>Rhabdoderma</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0	720
<i>Spirulina princeps</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 3 --cont.

	AUGUST 17, 1953	STATIONS										QNT
		MEN	GES	MAR	md	ALEXAND	ROSS	HAT	MHL	HAL	IHD	
spp	0	0	0	0	0	0	0	0	0	0	0	0
unknown filament	0	0	0	0	0	0	0	0	0	0	0	0
CRYPTOPHYCEAE:												0
<i>Chroomonas amphioxaea</i>												72
<i>caroliniana</i>												0
<i>minuta</i>												0
<i>Cryptomonas acuta</i>												0
<i>caudata</i>												0
<i>erosa</i>												0
<i>erosa</i> var <i>reflexa</i>												0
<i>marsconnii</i>												0
<i>praeceps</i>	416	604	143	238	36	56						
<i>pusilla</i>		185	121	0	0	0						
<i>pseudopalitica</i>												1512
<i>pyrenoidifera</i>												0
<i>salina</i>												0
<i>tenuis</i>												0
spp												0
<i>Haemiselmis virescens</i>												72
ZUGLENOPHYCEAE:												0
<i>zuyiana</i> spp												0
<i>autreptia vividus</i>												0
<i>phacus limmarmani</i>												0
<i>triangularis</i>												0
<i>torlus</i>												0
<i>Trechaeiomonas</i> spp												0
UNINOPHYCEAE:												0
<i>Glenodinium</i> spp												0
<i>Gymnodinium</i> spp												0
<i>Gyrodinium astuariatae</i>												0
<i>pelucidum</i>												0
spp												0
<i>Ranidinium</i> spp												0
<i>Peridinium cinctum</i>												0
<i>pusillum</i>												0
spp												0
<i>Procentrum minimum</i>	71	46	0	0	0	0	0	0	0	0	0	0
Unknown Dinophyceae	0	0	0	0	0	0	0	0	0	0	0	0
PRASINOPHYCEAE:												0
<i>Pyramimonas micron</i>												0
<i>plurioculata</i>												0
FLAGELLATES:												0
Unidentified flagellate	1000	370	302	143	286	357	729	314	238	0	0	576
micro flagellate	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 8 --cont.

	AUGUST 17, 1963	MEM	GES	MAR	STATIONS						IND	QNT
					md	ALEXAND VIA	ROS	HAT	MHL	HAL		
UNKNOWN:												
cells	0	0	60	0	48	0	0	0	0	0	0	0
spore	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTALS:												
CHLOROPHYCEAE	8926	7957	3694	8902	6906	7390	8963	837	1951	5512	2736	
CHRYSOPHYCEAE	143	0	0	333	333	357	729	105	0	0	144	
JACILLARIOPHYCEAE	17063	7438	12443	7519	7188	4854	5554	4398	906	1352	5040	
CYANOPHYCEAE	40845	66184	9104	24701	25747	571	8080	186506	202919	503256	170856	
CRYPTOPHYCEAE	0	693	1147	286	953	107	56	0	48	104	1656	
EUGLENOPHYCEAE	0	0	60	0	95	0	0	0	0	0	0	
DINOPHYCEAE	71	46	0	0	48	0	0	0	0	0	0	
PRASINOPHYCEAE	0	0	0	0	0	0	0	0	0	0	0	
FLAGELLATES	1000	370	302	143	286	357	729	314	238	0	576	
UNKNOWNNS	0	0	60	0	48	0	0	0	0	0	0	
TOTALS(CELLS/ML)	68048	82688	28810	41884	41604	13656	24011	192160	206062	510224	181008	

TABLE 6 ---cont.

STATIONS									
AUGUST 31, 1953	GES	MAR	MAR	ALEXAND	ROS	HAT	HAL	IHO	QNT
CHLOROPHYCEAE:									0
Ankistrodesmus convolutus	0	0	0	0	0	0	0	0	0
falcatus	178	239	117	24	0	0	0	0	0
nanoense	214	60	150	71	0	0	0	0	20
spp	0	0	0	0	0	0	0	0	0
Zotrycococcus spp	0	0	0	0	0	0	0	0	0
Carteria spp	0	0	0	0	0	0	0	0	0
Chaetosphaeridium	0	0	0	0	0	0	0	0	0
Characium limneticum	0	0	0	0	0	0	0	0	0
Chlamydomonas spp	214	119	67	24	0	0	0	0	0
Chlorella-like spp	178	0	0	48	0	0	0	0	0
Chlorella ellipsoidea	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
Chlorogonium spp	36	0	0	0	0	0	0	0	0
Closteriosis longissima	0	40	0	0	0	0	0	0	0
Closterium spp	0	0	0	0	0	0	0	0	0
Codatella quadriseti	0	0	0	0	0	0	0	0	0
Coeilastrum cambricum	508	320	136	0	0	0	0	0	0
spp A	0	0	0	0	0	0	0	0	0
spp B	0	0	0	0	0	0	0	0	0
Coelosphaerium naegelianum	0	0	0	0	0	0	0	0	0
Cosmarium spp	0	0	0	0	0	0	0	0	0
Crucigenia crucifera	0	0	0	0	0	0	0	0	0
divergens	20	0	0	0	0	0	0	0	0
quadrata	0	0	0	0	0	0	0	0	0
rectangularis	0	0	0	0	0	0	0	0	0
Tetrabedia	0	0	0	0	0	0	0	0	0
Dictyosphaerium antediluvianum	0	0	0	0	0	0	0	0	0
Dinobryon bavaricum	36	0	0	0	0	0	0	0	0
Eudorina elegans	0	0	0	0	0	0	0	0	0
Francea droescheri	0	0	0	0	0	0	0	0	0
ovalis	0	0	0	0	0	0	0	0	0
Gloeckysis spp	0	0	0	0	0	0	0	0	0
Golenkinia radiatum	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
Gomphosphaeria spp	0	0	0	0	0	0	0	0	0
Sonium pectorale	0	0	0	0	0	0	0	0	0
socialiae	0	0	0	0	0	0	0	0	0
Kirchneriella lunaris	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
Lagerheimia subsalsa	0	0	0	0	0	0	0	0	0
subsalsa var	0	0	0	0	0	0	0	0	0
Miractinium pusillum	0	0	0	0	0	0	0	0	0
quadrisetum	0	0	0	0	0	0	0	0	0
Oocystis pusilla	0	0	0	0	0	0	0	0	0
spp colony	0	0	0	0	0	0	0	0	0
Pandorina morum	20	0	0	0	0	0	0	0	0
Pediastrum boryanum	100	85	17	48	0	0	0	0	0
duplex	0	0	0	0	0	0	0	0	0

TABLE 8 --cont.

AUGUST 31, 1953	MEM	GES	MAR	HAT	ROS	ALEXAND	HAL	IHO	QNT	STATIONS	
										md	va
<i>Integrum</i>	0	0	0	0	0	0	0	0	0	0	0
<i>simplex</i>	0	0	0	0	0	0	0	0	0	0	0
<i>simplex</i> var. <i>duodenacium</i>	0	159	0	71	0	0	20	0	0	0	0
<i>tetras</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Poicycladon umbrinus</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudotetraedron neglectum</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Scenedesmus abundans</i> v	0	0	0	0	0	0	0	0	0	0	0
<i>armatus</i>	0	0	66	96	56	0	0	0	58	0	0
<i>dicaudatus</i> var. <i>alternans</i>	0	0	0	0	0	0	0	0	0	0	0
<i>dijugata</i>	0	238	34	286	108	162	72	96	58	0	0
<i>denticulatus</i>	142	0	0	0	0	0	0	0	0	0	0
<i>dimorphus</i>	0	0	0	0	0	0	0	0	0	0	0
<i>intermedius</i>	236	120	66	0	56	0	0	0	0	0	0
<i>quadricauda</i>	1142	398	34	238	84	40	500	286	0	0	0
spp	0	0	0	0	28	0	0	0	572	0	0
<i>Schroederia setigera</i>	36	0	17	0	14	0	36	0	0	0	0
<i>Selenastrum westii</i>	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	24	0	0	0	0	0	0
<i>Spermatococcus exultans</i>	321	80	67	95	1276	765	423	0	0	0	0
<i>Staurastrum</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Tetraedron caudatum</i>	0	0	0	0	0	0	0	0	0	0	0
<i>minimum</i>	0	0	0	0	0	0	0	0	0	0	0
<i>muticum</i>	0	40	0	0	0	0	0	0	0	0	0
<i>pentadricum</i>	0	20	0	0	0	0	0	0	0	0	0
<i>regulare</i>	0	0	0	0	0	0	0	0	0	0	0
<i>trigonum</i>	0	0	0	0	0	0	0	0	0	0	0
spp	0	119	0	0	0	0	0	0	0	0	0
<i>Tetrastrum elegans</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Staurogeniforme</i>	0	0	0	0	0	0	0	0	0	0	0
<i>Trebaria triappendiculata</i>	0	0	0	0	0	0	0	0	0	0	0
Unknown Phacotaceae	0	0	0	0	0	0	0	0	0	0	0
Unknown Green colony	0	0	0	0	0	0	0	0	0	0	0
Unknown Green cell	0	20	0	0	24	0	0	0	0	0	0
Zoospore	0	0	0	0	0	0	0	0	0	0	0
CHRYSTOPHYCEAE:											
<i>Chromatina microp plankton</i>	0	119	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0
<i>Chrysopsis</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Ochromonas nannos</i>	0	0	0	0	24	14	0	0	0	0	0
spp	0	20	0	17	0	0	0	0	0	0	0
Unknown Chrysophyte	0	0	0	0	0	0	0	0	0	0	0
BACILLARIOPHYCEAE:											
<i>Coccconeis diminuta</i>	0	0	0	17	0	0	0	0	0	0	0
spp	0	607	0	239	134	190	14	0	0	0	0
<i>Cyclotella</i> spp	0	0	0	0	0	0	0	0	0	0	0
<i>Fragilaria</i> spp	0	0	0	17	0	95	0	0	0	0	0
<i>Gyrosigma</i> spp	0	0	0	278	769	0	126	0	0	0	0
<i>Melosira granulata</i>	0	0	0	0	0	0	0	0	0	0	0

TABLE 8 --cont.

AUGUST 21, 1953	MEM	N.S.	MAR	ALEXANDRA	ROS	HAT	MHL	HAL	IHO	QNT	STATIONS	
											md	va
<i>granulata</i> var. <i>angustissima</i>	0	0	164	1975	1122	2336	4427	2237	343	0	0	0
<i>isiandica</i>	0	199	0	0	0	0	0	0	0	0	0	0
<i>italica</i>	0	199	0	0	0	0	0	0	0	0	0	0
spp	8426	1074	902	476	196	202	0	0	0	0	0	0
<i>navicula closterium</i>	0	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nitzschia nolsatrica</i>	0	0	0	0	0	0	0	0	0	0	0	0
paleo-type	0	0	0	0	0	0	0	0	0	0	0	0
<i>symoigea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>tryvillonia</i> var.	0	0	0	0	0	0	0	0	0	0	0	0
spp	36	99	134	48	14	101	0	0	0	0	0	0
<i>Pleurosigma</i> spp.	0	0	17	24	0	0	0	0	0	0	0	0
<i>Ranizosolenia</i> spp. cyst	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stephanodiscus</i> spp.	0	99	17	0	0	0	0	0	0	0	0	0
<i>Synedra daicetissima</i>	0	20	33	24	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0	0
Unknown centric diatom	2142	239	267	262	112	121	143	143	29	0	0	0
Unknown pennate diatom	0	0	201	119	114	20	71	0	0	0	0	0
CYANOPHYCEAE:												
<i>Anabaena affinis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>circinalis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>flos-aquae</i> var. <i>intermedia</i>	0	0	0	0	0	0	0	0	0	0	0	1968
<i>f. spiroides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>helicoides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>planktonica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>spirooides</i> var. <i>crassa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>spirooides</i> var. <i>minor</i>	0	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>aphanocephala</i> spp.	0	85	595	70	0	0	0	0	0	0	0	0
<i>aphanothece nidulans</i>	0	100	0	0	0	0	0	0	0	0	0	0
<i>aphanozomenon flos-aquae</i>	0	0	0	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chroococcus dispersus</i>	0	595	335	595	210	005	0	0	240	145	0	0
<i>dispersus</i> var. <i>minor</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>immetticus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>minutus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>planktonicus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>sliceopeltis rupestris</i>	3424	320	272	384	448	320	576	60700	193975	204925	280850	102000
<i>Microcystis aeruginosa</i>	0	0	0	0	0	0	0	0	286	0	0	0
incerta	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oscillatoria articulata</i>	0	0	0	0	0	0	0	0	0	0	0	0
spp	219	334	238	42	81	107	762	71	143	486	428	490
<i>Phormidium mucicola</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudoanabaena</i> spp.	0	0	0	0	0	0	0	0	0	0	0	0
<i>Raphidiopsis curvata</i>	179	134	0	0	0	0	0	0	0	0	306	184
<i>Rhabdoderma</i> spp.	0	17	71	14	20	0	0	0	0	0	0	0
<i>Spirulina princeps</i>	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 8 ---cont.

STATIONS												
AUGUST 31, 1983	MEM	GES	MAR	MD	ALEXAND	ROS	HAT	MHL	HAL	IHD	QNT	
500 Unknown filament	0	0	0	0	0	0	0	0	0	0	20	
											0	
CRYPTOPHYCEAE:												
<i>Chroomonas amphioxaea</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>caroliniana</i>	0	20	17	24	70	20	0	0	0	0	0	
<i>minuta</i>	71	159	50	214	70	101	36	0	0	43	0	
<i>v</i>												
<i>Cryptomonas acuta</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>caudata</i>	0	20	17	0	0	0	0	0	0	0	0	
<i>erose</i>	178	179	150	48	42	20	0	0	0	0	0	
<i>erosa</i> var. <i>reflexa</i>	0	3	33	0	0	40	0	0	0	0	0	
<i>marsionii</i>	178	119	150	0	14	0	0	0	0	0	0	
<i>phaeococcus</i>	107	3	0	24	0	0	0	0	0	0	0	
<i>pusilla</i>	393	219	100	0	56	20	0	0	0	0	0	
<i>psuedobaltica</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>pyrenoidifera</i>	36	40	0	0	0	0	0	0	0	0	0	
<i>saiina</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>tanuus</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>spp</i>	71	0	0	24	14	0	0	0	0	0	0	
<i>Hemiselmis virascens</i>	0											
EUGLENOPHYCEAE:												
<i>Euglena</i> spp	0	20	0	0	14	0	0	0	0	57	0	
<i>Eutreptia vividus</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>Phacus limmermanni</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>triangularis</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>tortus</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>Trachelomonas</i> spp	0											
DINOPHYCEAE:												
<i>Solenodinium</i> spp	0	0	0	0	0	0	0	0	0	43	0	
<i>Symnodinium</i> spp	0	0	0	0	24	0	0	0	0	0	0	
<i>Syrodonium estuarium</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>pellucidum</i>	20	0	0	0	0	0	0	0	0	0	0	
<i>SPP</i>	20	0	0	0	0	0	0	0	0	0	0	
<i>Nemidinium</i> spp	0	0	0	0	0	0	0	0	0	0	0	
<i>Paridinium cinctum</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>Pusillum</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>SPP</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>Prorocentrum minimum</i>	0	0	0	0	0	0	0	0	0	0	0	
Unknown Dinophyceae												
PRASINOPHYCEAE:												
<i>Pyramimonas micron</i>	0	0	0	0	0	0	0	0	0	0	0	
<i>plurioculata</i>	0	0	0	0	0	0	0	0	0	0	0	
FLAGELLATES:												
Unidentified flagellate	250	159	201	500	238	403	286	238	200	95	163	
micro flagellate	0	0	0	0	0	0	0	0	0	0	0	

TABLE 8 ---cont.

	AUGUST 31, 1953	MEM	GES	MAR	STATIONS					IND	QNT
					M&D	ALEXAND RA Va	RUS	HAT	MHL		
UNKNOWN:											
cells	71	40	0	48		14	20	9	0	29	0
spores	0	0	0	0		0	0	2	0	0	0
Uroglana	0	0	0	0		0	0	0	0	0	0
SUMTOTALS:											
CHLOROPHYCEAE	3351	2152	906	1217	2144	1868	1430	717	832	334	80
CHARYSPHYCEAE	0	139	34	333	280	141	35	48	0	0	41
BACILLARIOPHYCEAE	11211	2466	2692	3213	1612	2730	4541	2380	372	0	0
CYANOPHYCEAE	3779	1413	1177	1383	784	6131	6174	19540	206755	282088	105050
CRYPTOPHYCEAE	1034	750	517	334	280	201	72	0	0	48	0
EUGLENOPHYCEAE	0	40	0	0	14	20	0	0	57	0	0
DINCPHYCEAE	0	40	0	24	14	0	0	96	0	96	0
PRASINOPHYCEAE	0	0	0	0	0	0	0	0	0	0	0
FLAGELLATES	250	159	201	500	238	403	286	238	200	95	163
UNKNOWNs	71	40	0	48	14	80	0	0	29	0	0
TOTALS(CELLS/ML)	19696	7205	5527	7552	5380	11024	68205	198885	208245	282661	105534

TABLE 8 ---cont.

SEPTEMBER 3, 1983	STATIONS										QNT
	MEM	GES	MAR	ALEXANDRA	ROS	HAT	MHL	HAL	IHO	QNT	
CHLOROPHYCEAE:											
Ankistrodesmus convolutus	0	0	0	0	0	0	0	0	0	0	
falcatus	43	23	43	22	0	0	0	0	0	0	
nano selane	71	28	95	0	0	0	0	0	0	143	
spp	0	0	0	0	0	0	0	0	0	0	
Sotryococcus spp	0	0	0	0	0	0	0	0	0	0	
Carteria spp	43	0	0	0	0	0	0	0	0	0	
Chaeotosphaeridium	0	0	0	0	0	0	0	0	0	0	
Characium limneticum	0	0	0	0	0	0	0	0	0	0	
Chlamydomonas spp	143	138	43	177	0	0	0	0	0	0	
Chlorella-like spp	24	28	9	111	0	0	0	0	0	0	
Chlorella ellipsoidea	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	
Chlorogonium spp	0	0	0	0	0	0	0	0	0	0	
Closteriosis longissima	0	0	0	0	0	0	0	0	0	0	
Closterium spp	0	0	0	0	0	0	0	0	0	0	
Cocatella quadriseti	0	0	0	0	0	0	0	0	0	0	
Coelastrum cambrium	0	0	0	0	0	0	0	0	0	0	
spp A	0	0	0	0	0	0	0	0	0	0	
Coelosphaerium naegelianum	0	0	0	0	0	0	0	0	0	0	
Cosmarium spp	0	0	0	0	0	0	0	0	0	0	
Crucigenia crucifera	0	0	0	0	0	0	0	0	0	0	
Divergens	0	0	0	0	0	0	0	0	0	0	
Quadrata	0	0	0	0	0	0	0	0	0	0	
Rectangularis	0	0	0	0	0	0	0	0	0	0	
Tetrapedia	0	0	0	0	0	0	0	0	0	0	
Dictyosphaerium enreberianum	0	0	0	0	0	0	0	0	0	0	
Dinobryon davaricum	0	0	0	0	0	0	0	0	0	0	
Eudorina elegans	0	0	0	0	0	0	0	0	0	0	
Francea droeschkei	0	0	0	0	0	0	0	0	0	0	
Ovalis	0	0	0	0	0	0	0	0	0	0	
Gloeostysis spp	0	0	0	0	0	0	0	0	0	0	
Solenkinia radiatum	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	
Somphosphaeria spp	0	0	0	0	0	0	0	0	0	0	
Gonium pectorale	0	0	0	0	0	0	0	0	0	0	
Sociale	0	0	0	0	0	0	0	0	0	0	
Kirchneriella lunaris	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	
Lagerheimia subsalsa	0	0	0	0	0	0	0	0	0	0	
sub salsa var	0	0	0	0	0	0	0	0	0	0	
Miractinium pusillum	0	0	0	0	0	0	0	0	0	0	
Quadrisetum	0	0	0	0	0	0	0	0	0	0	
Oocystis pusilla	0	0	0	0	0	0	0	0	0	0	
spp colony	0	0	0	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	0	0	0	
Pandorina morum	0	0	0	0	0	0	0	0	0	0	
Pediastrum boryanum	0	0	0	0	0	0	0	0	0	0	

TABLE 8 --cont.

STATIONS									
SEPTEMBER 2, 1933	MEN	GES	MAR	ALEXAND V.A.	HAL	HAT	ROS	MHL	IHD
<i>duplex</i>	0	3528	0096	0	0	0	0	4568	0
<i>integrum</i>	0	0	0	0	0	0	0	0	0
<i>similex</i>	0	0	0	0	0	0	0	0	0
<i>similex</i> var. <i>duodenarium</i>	0	83	286	44	0	0	0	0	0
<i>tetraës</i>	0	0	0	0	0	0	0	0	0
<i>Polyzledon umbrinus</i>	0	0	0	0	0	0	0	0	0
<i>Pseudotetraedron neglectum</i>	0	0	0	0	0	0	0	0	0
<i>Scenedesmus abundans</i> V	0	0	0	0	0	0	0	0	0
<i>armatus</i>	0	0	0	0	0	0	0	0	0
<i>dicaudatus</i> var. <i>alternans</i>	0	110	372	0	0	0	0	0	0
<i>oligolepis</i>	0	220	0	0	0	0	0	0	0
<i>denticulatus</i>	0	0	0	0	0	0	0	0	0
<i>claviger</i>	0	0	0	0	0	0	0	0	0
<i>intermedius</i>	1190	220	0	0	0	0	0	572	0
<i>quadricauda</i>	334	1102	428	266	0	0	0	428	190
SOP	0	220	96	0	0	0	0	0	0
<i>Schroederia setigera</i>	0	0	0	0	0	0	0	0	0
<i>Seiurus striatum westi</i>	0	0	0	0	0	0	0	0	0
SOP	0	0	0	0	0	0	0	0	0
<i>Spermatococcus exultans</i>	643	220	1047	796	1142	611	762	43	48
<i>Staurastrum</i> spp	0	0	0	0	0	0	0	0	0
<i>Tetraedron caudatum</i>	0	0	0	0	0	0	0	0	0
<i>minimum</i>	0	0	0	0	0	0	0	0	0
<i>muticum</i>	28	0	0	0	0	0	0	0	0
<i>pentadricum</i>	0	0	0	0	0	0	0	0	0
<i>rayulare</i>	0	0	0	0	0	0	0	0	0
<i>trigonum</i>	0	0	0	0	0	0	0	0	0
SOP	0	0	0	0	0	0	0	0	0
<i>Tetrastrum aegans</i>	28	0	0	0	0	0	0	0	0
<i>Staurogeniforme</i>	0	0	0	0	0	0	0	0	0
<i>Trebaria triappendiculata</i>	0	0	0	0	0	0	0	0	0
Unknown Phacotaceae	0	0	0	0	0	0	0	0	0
Unknown Green colony	0	0	0	0	0	0	0	0	0
Unknown Green cell	0	0	0	0	0	0	0	0	0
Zoospore	0	0	0	0	0	0	0	0	0
CHRYSTOPHYCEAE:									
<i>Chromatina microplankton</i>	24	83	214	221	173	202	143	0	0
SOP	0	0	0	0	0	0	0	0	0
<i>Chrysosphaera</i> spp	24	0	0	0	0	0	0	0	0
<i>Ochromonas nannos</i>	24	0	0	0	0	0	0	0	0
SOP	0	0	0	0	0	0	0	0	0
Unknown Chrysophyte	0	0	0	0	0	0	0	0	0
ZYGLAROPHYCEAE:									
<i>Coccconeis diminuta</i>	0	0	0	0	0	0	0	0	0
SOP	71	0	0	0	0	0	0	143	0
<i>Cyclotella</i> spp	0	0	0	0	0	0	0	36	0
<i>Fragilaria</i> spp	0	0	0	0	0	0	0	0	95
<i>Gyrosigma</i> spp	0	0	0	0	0	0	0	0	0

TABLE 6 --cont.

	MEM	GES	MAR	STATIONS				HAL	IHD	QNT
				ALEXAND	ROS	HAT	MHL			
<i>Melosira granulata</i>	0	717	0	0	0	0	0	0	0	0
<i>granulata</i> var <i>angustissima</i>	0	0	0	0	0	0	0	0	0	0
<i>islandica</i>	0	441	1714	664	1606	2443	0	2475	524	0
<i>italica</i>	0	0	0	0	0	0	0	0	0	0
<i>spp</i>	1238	1158	428	176	356	0	10186	0	0	0
<i>Navicula closterium</i>	0	0	0	0	0	0	0	0	0	0
<i>spp</i>	48	0	0	0	0	0	0	0	0	0
<i>Nitzschia holosatica</i>	0	193	0	0	0	0	0	0	0	0
palea-type	95	55	48	66	214	0	143	48	95	95
<i>sigmoides</i>	0	0	0	0	0	0	0	0	0	0
<i>tryblionella</i> var	0	C	48	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	66	0	0	0	0	0	48
<i>Pleurosigma</i> spp	0	28	0	0	0	0	0	0	0	0
<i>Khizosolenia</i> spp cyst	0	28	24	0	0	0	0	0	0	0
<i>Stephanodiscus</i> spp	0	55	48	0	0	0	0	0	0	0
<i>Synedra delicatissima</i>	0	0	0	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0	0	0
Unknown Centric diatom	2166	1158	262	243	36	262	43	95	0	0
Unknown pennate diatom	143	0	0	22	71	0	0	0	0	95
CYANOPHYCEAE:										
<i>Anabaena affinis</i>	0	0	0	0	0	0	0	0	0	0
<i>circinalis</i>	0	0	0	0	0	0	0	0	0	0
<i>flos-aquae</i> var <i>intermedia</i>	0	0	0	0	0	0	0	0	0	0
† <i>Spirodes</i>										
<i>helicoides</i>	0	0	0	0	0	0	0	0	0	0
<i>planctonica</i>	0	0	0	0	0	0	0	0	0	0
<i>spiroides</i> var <i>crassa</i>	0	0	0	0	0	0	0	0	0	0
<i>spiroides</i> var <i>minor</i>	0	0	0	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0	0	0
<i>Apahnocapsa</i> spp	0	275	595	5860	0	0	0	0	0	0
<i>Apahnotherce nidulans</i>	3925	0	0	0	0	0	0	0	0	0
<i>nitidum</i>	0	0	0	0	0	0	0	0	0	0
<i>Apahnozomenon flos-aquae</i>	0	0	0	0	0	0	0	0	0	0
<i>Chroococcus dispersus</i>	0	0	3450	6635	715	2400	2620	0	950	0
<i>dispersus</i> var <i>minor</i>	355	5925	0	0	0	0	0	0	0	0
<i>limneticus</i>	0	0	0	222	0	2966	190	1142	666	1904
<i>minutus</i>	0	0	0	0	0	0	0	0	0	0
<i>planktonicus</i>	0	0	0	0	0	0	0	0	0	0
<i>Gloecapsa rupestris</i>	0	0	0	0	0	0	0	0	0	0
<i>Merismopedia tenuissima</i>	40752	82016	6096	12384	82256	5584	0	0	0	0
<i>Microcystis aeruginosa</i>	0	600	13825	4.24E6	7625	1.70E6	5.19E6	7.59E6	9.54E6	259425
<i>incerta</i>	24	0	0	0	36	0	0	0	48	0
<i>Oscillatoria articulata</i>	0	303	214	66	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0	0	0
<i>Phormidium mucicola</i>	0	0	0	22	0	44	95	524	904	381
<i>Pseudoanabaena</i> spp	0	0	0	0	0	0	0	143	524	238
<i>Raphidiopsis curvata</i>	0	193	0	0	0	0	0	0	1642	0
<i>Rhabdoderma</i> spp	1285	1984	0	288	357	0	0	0	0	0

TABLE 3 --cont.

	STATIONS						
	MEM	GES	MAR	MD	ALEXAND	ROS	HAT
				Va			
SEPTEMBER 8, 1953	0	0	0	0	0	0	0
<i>Sorularina princeps</i>	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0
Unknown filament	0	0	0	0	0	0	0
CRYPTOPHYCEAE:							
<i>Cryptomonas amphioxaea</i>	0	0	0	0	0	0	0
<i>Caroliniana</i>	48	0	0	0	36	0	0
<i>minuta</i> V	143	413	524	752	500	654	193
<i>Cryptomonas acuta</i>	0	0	0	0	0	0	0
<i>caudata</i>	24	0	24	0	36	0	48
<i>erosa var. reflexa</i>	0	23	48	66	0	0	0
<i>marsionii</i>	0	26	26	63	0	0	48
<i>pnaeselii</i>	24	55	24	0	0	0	0
<i>pusilla</i>	71	165	71	133	0	0	48
<i>psuedobaltica</i>	0	0	0	0	0	0	0
<i>pyrenoidifera</i>	0	0	0	0	0	0	0
<i>saliens</i>	0	0	0	0	0	0	0
<i>tenuis</i>	0	0	0	0	0	0	0
spp	0	0	0	0	22	0	131
<i>Hemiselmis virescens</i>	0	0	0	0	0	0	0
EUGLENOPHYCEAE:							
<i>Euglena</i> spp	0	0	0	22	0	0	48
<i>Eutreptia vividus</i>	0	0	0	0	0	0	0
<i>Phacus limmermani</i>	0	0	0	0	0	0	0
<i>triangularis</i>	0	0	0	0	0	0	0
<i>tortus</i>	0	0	0	0	0	0	0
<i>Trachaelomonas</i> spp	0	0	0	0	0	0	0
DINOPHYCEAE:							
<i>Glenodinium</i> spp	0	0	0	0	0	0	0
<i>Gymnodinium</i> spp	0	0	0	0	0	0	0
<i>Gyrodinium</i> estuarium	0	0	0	0	0	0	0
<i>pellucidum</i>	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0
<i>Hedinium</i> spp	0	0	0	0	0	0	0
<i>Peridinium cinctum</i>	48	0	0	0	0	0	0
<i>pusillum</i>	24	0	0	0	0	0	0
spp	0	0	0	0	0	0	0
<i>Procentrum minimum</i>	0	0	0	0	0	0	0
Unknown Dinophyceae	0	0	0	0	0	0	0
PRASINOPHYCEAE:							
<i>Pyramimonas micron</i>	0	0	0	0	0	0	0
<i>plurioculata</i>	0	0	0	0	0	0	0
FLAGELLATES:							
Unidentified flagellate	24	83	143	0	428	0	43
micro flagellate	0	0	0	0	0	0	0

TABLE 3 --cont.

SEPTEMBER 3, 1983	MEM	GES	MAR	STATIONS					IHD	QNT
				ALEXAND RA nd va	ROS	HAT	MHL	HAL		
UNKNOWN:	0	0	0	0	0	0	0	0	0	0
cells	0	0	24	199	178	0	43	0	0	48
spores	24	0	0	0	0	0	0	0	0	0
SUBTOTALS:										
CHLOROPHYCEAE	2976	6036	8764	2351	1782	2532	2571	428	6234	1214
CHRYSDOPHYCEAE	72	33	214	221	178	262	143	0	0	0
BACILLARIOPHYCEAE	3701	3833	2572	1303	2462	2705	10472	2618	619	0
CYANOPHYCEAE	40341	90696	10955	39302	4.32E6	56355	1.78E6	5.22E6	7.60E6	9.55E6
CRYPTOPHYCEAE	310	772	691	1039	572	373	233	191	96	0
EUGLENOPHYCEAE	0	0	48	44	0	0	43	0	0	0
DINOPHYCEAE	72	0	24	0	36	0	0	0	0	71
PRASINOPHYCEAE	0	0	0	0	0	0	0	0	0	0
FLAGELLATES	24	83	143	0	428	0	43	48	143	0
UNKNOWNS	24	0	24	199	178	0	43	0	0	48
TOTALS(CELLS/ML)	53530	101503	23435	44959	4.33E6	02707	1.79E6	5.22E6	7.61E6	9.55E6

TABLE 8 --cont.

SEPTEMBER 26, 1963	STATIONS					
	MEM	SES	MAR	md	ALEXAND	W.A.
CHLOROPHYCEAE:						
<i>Ankistrogenus convolutus</i>	0	0	0	0	0	0
<i>falcatus</i>	0	0	103	82	48	0
<i>nanooselene</i>	29	20	0	143	0	0
<i>spp</i>	0	0	244	0	572	0
<i>Botryococcus spp</i>	0	0	0	0	0	0
<i>Carteria spp</i>	0	0	0	0	0	0
<i>Chloatosphaeridium</i>	0	0	0	0	0	0
<i>Chlorocodium spp</i>	0	0	0	0	0	0
<i>Chlorocodium limneticum</i>	0	0	0	0	0	0
<i>Chlamydomonas spp</i>	41	41	32	41	0	0
<i>Chlorella-like spp</i>	29	32	143	0	0	0
<i>Chlorellaellipsoidea</i> spp	0	0	0	0	0	0
<i>Chlorogonium spp</i>	49	0	0	0	0	0
<i>Closteriopsis longissima</i>	0	0	0	0	0	0
<i>Closterium spp</i>	0	0	0	0	0	0
<i>Coccomyces quadrisetii</i>	0	0	0	0	0	0
<i>Cocciasterum cembrium</i>	0	0	0	0	0	0
<i>Cocciasterum cembrium</i> spp A	0	0	0	0	0	0
<i>Coccosphaerium naegelianum</i>	0	0	0	0	0	0
<i>Cosmarium spp</i>	0	0	0	0	0	0
<i>Crucigenia crucifera</i>	0	0	0	0	0	0
<i>divergens</i>	0	0	0	0	0	0
<i>quadriata</i>	0	0	0	0	0	0
<i>rectangularis</i>	0	0	0	0	0	0
<i>tetrapedia</i>	0	0	0	0	0	0
<i>Dictyosphaerium ehrenbergianum</i>	0	0	0	0	0	0
<i>Dinobryon davuricum</i>	0	0	0	0	0	0
<i>Eudorina elegans</i>	0	0	0	0	0	0
<i>Francezia droescheri</i>	0	0	0	0	0	0
<i>ovalis</i>	0	0	0	0	0	0
<i>Gloeostysis spp</i>	0	0	0	0	0	0
<i>Colankinia radiatum</i>	0	0	0	0	0	0
<i>Sphaerosphaeria spp</i>	0	0	0	0	0	0
<i>Sphaerosphaeria pectorale</i>	0	0	0	0	0	0
<i>Sphaerosphaeria sociale</i>	0	0	0	0	0	0
<i>Kirchneriella lunaris</i>	0	0	0	0	0	0
<i>Lagerheimia subsalsa</i>	0	0	0	0	0	0
<i>subsalsa var</i>	0	0	0	0	0	0
<i>Miractinium pusillum</i>	0	0	0	0	0	0
<i>quadrisetum</i>	0	0	0	0	0	0
<i>Oocystis pusilla</i>	0	0	0	0	0	0
<i>spp colony</i>	0	0	0	0	0	0
<i>Pandorina morum</i>	0	0	0	0	0	0
<i>Pediastrum boryanum</i>	0	0	0	0	0	0
<i>cuplex</i>	0	0	0	0	0	0

TABLE 8 --cont.

SEPTEMBER 23, 1953		STATIONS					
		MEM	GES	MAR	ALEXAND	MHL	QNT
				md	va		
<i>Integrum</i>		0	0	0	0	0	0
<i>Simplex</i>		0	0	163	41	0	0
<i>Simplex</i> var. tetrás		0	0	0	0	0	0
<i>Poicycladon umbrinum</i>		0	0	0	0	0	0
<i>Pseudotetraedron neglectum</i>		0	0	0	0	0	0
<i>Scenedesmus abundans</i> V armatus		0	0	0	0	0	0
<i>Dicaugetus</i> var. <i>alternans</i>		0	0	0	0	0	0
<i>Bijuga</i> ?		114	244	490	734	190	0
<i>Canticulatus</i>		0	0	0	0	0	0
<i>Cimorphus</i>		0	0	0	0	0	0
<i>Intermediate</i>		0	0	0	0	0	0
<i>Quadriracauda</i>	spp	228	326	408	16280	0	210
<i>Schroederia setigera</i>		0	0	0	0	0	0
<i>Serenesium vestiti</i>		0	0	0	0	0	0
<i>Spermatocerosis exultans</i>		0	82	0	0	0	0
<i>Sphaerastrum</i> spp		1085	265	408	694	1000	0
<i>Tetraedron caudatum</i>		0	0	0	0	0	0
<i>minimum</i>		0	0	0	0	0	0
<i>muticum</i>		0	0	0	0	0	0
<i>pentadricum</i>		0	0	0	0	0	0
<i>regulare</i>		0	0	0	0	0	0
<i>trigonum</i>		0	0	0	0	0	0
spp		0	0	0	0	0	0
<i>Tetrastrum siegens</i>		0	0	0	0	0	0
<i>Staurogeniforme</i>		456	0	0	0	328	0
<i>Trebaria triappendiculata</i>		0	0	0	0	0	0
Unknown Phacotaceae		0	0	0	0	0	0
Unknown green colony		0	0	0	0	0	0
Unknown green cell		0	0	0	0	0	0
Zoopores		0	0	0	0	0	0
CHRYOSPHYCEAE:							
<i>Cnromulina microplankton</i>		29	61	61	20	48	105
- spp		0	0	0	0	0	0
<i>Chrysopsis</i> spp		0	0	0	0	0	0
<i>Ochromonas nannos</i>	spp	46	20	0	0	0	0
Unknown Chrysophyta		0	0	0	0	0	0
ACILLARIOPHYCEAE:							
<i>Coccconeis diminuta</i>	spp	0	0	0	0	0	0
<i>Cyclotella</i> spp		41	41	20	0	0	0
<i>Fragilaria</i> spp		0	0	0	0	0	0
<i>Gyrosigma</i> spp		0	0	0	0	0	0
<i>Melosira granulata</i>		224	0	0	0	95	0

TABLE 4 --cont.

STATIONS									
SEPTEMBER 25, 1963	MEM	GES	MAR	md var	ALEXAND	MHL	HAL	IHD	QNT
<i>Granularia</i> var <i>angustissima</i>	0	0	0	0	0	0	0	0	0
<i>Islandica</i>	0	0	0	0	0	0	0	0	0
<i>Intercala</i>	0	0	0	0	0	0	0	0	0
spp	5540	164	612	490	3046	236	0	0	0
<i>Navicula ciosterium</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
<i>Nitzschia holostictica</i>	0	0	0	0	0	0	0	0	0
<i>palea-type</i>	29	41	0	61	95	0	0	0	0
<i>signoides</i>	0	0	0	0	0	0	0	0	0
<i>tryblionella</i> var	0	0	0	0	0	0	0	0	0
spp	29	0	20	20	0	0	0	0	0
<i>Pleurosigma</i> spp	0	0	0	0	0	0	0	0	0
<i>Rhizosolenia</i> spp cyst	0	0	0	0	0	0	0	0	0
<i>Stephanodiscus</i> spp	0	184	205	20	0	0	0	0	0
<i>Synedra delicatissima</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
Unknown centric diatom	1371	694	551	367	95	0	0	0	105
Unknown pennate diatom	0	61	20	32	0	0	0	0	143
CYANOPHYCEAE:									
<i>Anabaena affinis</i>	0	0	0	0	0	0	0	0	0
<i>circinalis</i>	0	0	0	0	0	0	0	0	0
flos-aquae var intermedia	0	0	0	0	0	0	0	0	0
f sciroides	0	0	0	0	0	0	0	0	0
neocloides	0	0	0	0	0	0	0	0	0
planctonica	0	0	0	0	0	0	0	0	0
spiroides var crassa	0	0	0	0	0	0	0	0	0
spiroides var minor	0	0	0	0	0	0	0	0	0
spp	9140	6856	0	14088	135944	8568	111956	0	0
<i>Aphanocapsa</i> spp	0	0	1120	0	0	0	0	0	0
<i>Aphanothecae nidulans</i>	0	0	0	0	0	0	0	0	0
<i>nitidum</i>	0	0	0	0	0	0	0	0	0
<i>Apahnogommenon flos-aquae</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
<i>Chroococcus dispersus</i>	0	0	1735	2380	9995	0	4285	0	0
<i>dispersus</i> var <i>minor</i>	265	5200	2855	1630	950	0	0	0	0
<i>limneticus</i>	0	0	0	0	0	0	0	0	0
<i>minutus</i>	0	0	1102	3468	7996	12280	10852	5712	0
<i>planktonicus</i>	0	0	0	0	0	0	0	0	0
<i>Sloeca</i> spp <i>rupestris</i>	0	0	0	0	0	0	0	0	0
<i>Merismopedia tenuissima</i>	9136	18272	11744	0	21328	0	0	0	0
<i>Microcystis aeruginosa</i>	0	0	0	0	89250	4.64E6	8.48E5	899650	2.92E6
<i>incerta</i>	0	0	0	0	0	0	0	0	0
<i>Oscillatoria articulata</i>	0	0	0	0	0	0	0	0	0
spp	20	41	41	0	0	0	0	286	0
<i>Phormidium mucicola</i>	0	0	20	48	571	571	0	209	0
<i>Pseudanabaena</i> spp	0	0	0	0	1142	2142	1142	942	0
<i>Raphidiopsis curvata</i>	0	0	82	0	0	0	0	0	0
<i>Rhabdoderma</i> spp	0	0	0	0	0	0	0	0	0
<i>Spirulina princeps</i>	0	0	0	0	0	0	0	0	0

TABLE 8 --cont.

		STATIONS								
		MEM	GES	MAR	md	ALEXAND va	MHL	HAL	IHD	QNT
SPP		0	0	0	0	0	0	0	0	105
Unknown filament		0	0	0	0	0	0	0	0	0
CYANOPHYCEAE:										
<i>Chroomonas amphioxosa</i>		0	0	0	0	0	0	0	0	0
<i>caroliniana</i>		0	0	0	0	0	0	0	0	0
<i>minuta</i>		428	286	143	61	48				
<i>v</i>		0	0	0	0	0				
<i>Cryptomonas acuta</i>		0	0	0	0	0				
<i>caudata</i>		0	0	0	0	0				
<i>grossa</i>		0	0	0	0	0				
<i>erosa</i> var <i>reflexa</i>		0	0	20	0	0				
<i>narsenii</i>		0	0	0	0	0				
<i>phaeococcus</i>		29	0	20	0	0				
<i>pusilla</i>		743	265	184	61	95				
<i>psuedoalatica</i>		0	0	0	0	0				
<i>pyrenoidifera</i>		0	0	20	0	0				
<i>savini</i>		0	0	0	0	0				
<i>tenuis</i>		0	0	0	0	0				
SPP		0	0	20	0	0				
<i>Nemiselmis virescens</i>		0	0	0	0	0				
EUGLENOPHYCEAE:										
<i>Euglena</i> spp		0	0	20	20					
<i>Enterozoo vividus</i>		0	0	0	0	0				
<i>Phacus limmermanni</i>		0	0	0	0	0				
<i>triqueter</i>		0	0	0	0	0				
<i>tortus</i>		0	0	0	0	0				
<i>Trachniononas</i> spp		0	0	0	0	0				
DINOPHYCEAE:										
<i>Glenodinium</i> spp		0	0	0	0	0				
<i>Symnodinium</i> spp		0	0	0	0	0				
<i>Gyrodinium estuarium</i>		0	0	0	0	0				
<i>pellucidum</i>		0	0	0	0	0				
SPP		0	0	0	0	0				
<i>Hemidinium</i> spp		0	0	0	0	0				
<i>Peridinium cinctum</i>		0	0	0	0	0				
<i>pusillum</i>		0	0	0	0	0				
SPP		0	0	0	0	0				
<i>Procentrum minimum</i>		0	0	0	0	0				
Unknown Dinophyceae		0	0	0	0	0				
PRASINOPHYCEAE:										
<i>Pyramimonas micron</i>		0	0	0	0	0				
<i>plurioculata</i>		0	0	0	0	0				
FLAGELLATES:										
Unidentified flagellate		0	122	82	122	238	0	0	0	105
micro flagellate		0	0	0	0	0				0

TABLE 8 --cont.

		STATIONS								
		MEM	GES	MAR	md	ALEXAND va	MHL	HAL	IND	QNT
JUNKNOWN:		0	20	20	0	48	0	0	0	0
cells		0	0	0	0	0	0	0	0	0
spores		0	0	0	0	0	0	0	0	0
SUMTOTALS:		2256	1344	2223	2142	1810	16280	1000	572	210
CHLOROPHYCEAE		115	81	61	20	48	0	3	0	103
CHRYZOPHYCEAE		6909	1409	1529	1060	3331	2326	0	143	105
BACILLAROPHYCEAE		9421	32632	22660	8014	136040	5.19E6	8.50E6	1.02E6	2.92E6
CYANOPHYCEAE		1200	755	448	183	191	0	0	0	0
CRYPTOPHYCEAE		0	0	20	20	0	0	0	0	0
EUGLENOPHYCEAE		0	0	0	0	48	0	143	0	0
DINOPHYCEAE		0	0	0	0	0	0	0	0	0
PRASINOPHYCEAE		0	0	0	0	0	0	0	0	0
FLAGELLATES		0	122	82	122	238	0	0	0	103
JUNKNOWN:		0	20	20	0	48	0	0	0	0
TOTALS(CELLS/ML)		19761	36363	27063	11561	141754	5.21E6	8.50E6	1.02E6	2.92E6

TABLE 8 --cont.

	ALEXAND VÄ	STATIONS					POH
		ROS	HAT	MHL	HAL	IND	
CHLOROKOPHYCEAE:							
<i>Ankistrodesmus convolutus</i>	0	18	0	0	0	0	0
<i>ficicostatus</i>	59	18	0	0	0	0	393
<i>nennoselene</i>	43	71	0	0	0	0	0
spp	0	0	0	0	0	0	0
<i>Sotryococcus</i> spp	0	0	0	0	0	0	0
<i>Varteria</i> spp	0	0	0	0	0	0	0
<i>Chaetosphaeridium</i>	0	0	0	0	0	0	0
<i>Unicracium limneticum</i>	0	0	0	0	0	0	0
<i>Chlamydomonas</i> spp	59	0	0	0	0	0	0
<i>Chorearia-like</i> spp	36	0	0	0	0	0	0
<i>Chiorella ellipsoidea</i>	0	0	0	0	0	0	0
spp	48	0	0	0	0	0	0
<i>Microcoleus</i> spp	0	0	0	0	0	0	0
<i>Closteriopsis longissima</i>	0	0	0	0	0	0	0
<i>Closterium</i> spp	0	0	0	0	0	0	0
<i>Cocatilia quadriseti</i>	0	0	0	0	0	0	0
<i>Coelastrum cambrium</i>	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0
<i>Coelosphaerium naegelianum</i>	0	0	0	0	0	0	0
<i>Cosmarium</i> spp	0	0	0	0	0	0	0
<i>Crucigenia crucifera</i>	0	0	0	0	0	0	0
<i>Divergens</i>	0	0	0	0	0	0	0
<i>Quadrata</i>	0	0	0	0	0	0	0
<i>Rectangularis</i>	0	0	0	0	0	0	0
<i>Tetrapteria</i>	0	0	0	0	0	0	0
<i>Victyosphaerium ehrenbergianum</i>	48	0	0	0	0	0	0
<i>Zincoeryon bavaricum</i>	0	0	0	0	0	0	0
<i>Eudorina elegans</i>	0	0	0	0	0	0	0
<i>Franceia droescheri</i>	0	0	0	0	0	0	0
<i>Ovalis</i>	0	0	0	0	0	0	0
<i>Gloeocystis</i> spp	0	0	0	0	0	0	0
<i>Golenkinia radiatum</i>	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0
<i>Sophronoendleria</i> spp	0	0	0	0	0	0	0
<i>Sonium pectorale</i>	0	0	0	0	0	0	0
<i>Socialis</i>	0	0	0	0	0	0	0
<i>Kirchneriella lunaris</i>	180	0	0	0	0	0	0
spp	0	48	0	0	0	0	36
<i>Lagerheimia subsalsa</i>	0	0	0	0	0	0	0
<i>Subsalsa var</i>	0	0	0	0	0	0	0
<i>Miractinium pusillum</i>	0	0	0	0	0	0	0
<i>Quadrisetum</i>	0	0	0	0	0	0	0
<i>Oocystis pusilla</i>	0	0	0	0	0	0	0
spp colony	0	0	0	0	0	0	0
spp	12	0	0	0	0	0	0
<i>Pandorina morum</i>	240	0	0	0	0	0	0
<i>Pediastrum boryanum</i>	0	0	0	0	0	0	0

TABLE 8 --cont.

OUTOUBR 14, 1933	ALEXAND VIA	STATIONS						POH
		ROS	HAT	MHL	HAL	IND	QNT	
<i>duplex</i>	0	0	0	0	0	0	0	0
<i>integrum</i>	0	0	0	0	0	0	0	0
<i>similex</i>	0	0	0	0	0	0	0	0
<i>similex</i> var <i>duodenarium</i>	0	0	0	0	0	0	0	0
<i>tetras</i>	0	0	0	0	0	0	0	0
<i>Polycladon umbrinum</i>	0	0	0	0	0	0	0	0
<i>Pseudotetradron neglectum</i>	0	0	0	0	0	0	0	0
<i>Scenedesmus abundans</i> V	0	0	0	0	0	0	0	0
<i>ermatus</i>	0	0	0	0	0	0	0	0
<i>bicaudatus</i> var <i>alternans</i>	96	286	1142	0	0	0	0	0
<i>dijuga</i> ?	43	286	0	0	0	0	0	0
<i>denticulatus</i>	0	0	0	0	0	0	0	0
<i>dimorphus</i>	0	0	0	0	0	0	0	0
<i>intermedius</i>	0	0	0	0	0	0	0	0
<i>quadrivalvis</i>	48	142	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0
<i>Schroederia setigera</i>	12	0	0	0	0	0	0	0
<i>Seienastrum westii</i>	95	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0
<i>Spermatococcus exultans</i>	24	645	714	0	0	0	0	0
<i>Staurastrum spp</i>	0	0	0	0	0	0	0	0
<i>Tetraedron caudatum</i>	0	0	0	0	0	0	0	0
<i>minimum</i>	0	0	0	0	0	0	0	0
<i>muticum</i>	0	0	0	0	0	0	0	0
<i>pentadricum</i>	0	0	0	0	0	0	0	0
<i>regularis</i>	0	0	0	0	0	0	0	0
<i>trigonum</i>	0	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0
<i>Tetrasrum elegans</i>	12	0	0	0	0	0	0	0
<i>Staurogeniforme</i>	380	0	0	0	0	0	0	0
<i>Treubaria triappendiculata</i>	0	0	0	0	0	0	0	0
Unknown Phacotaceae	12	0	0	0	0	0	0	0
Unknown Green colony	12	0	0	0	0	0	0	0
Unknown Green cell	0	0	0	0	0	0	0	0
Zoospores	0	0	0	0	0	0	0	0
CHRYOSOPHYCEAE:								
<i>Chromulina microplankton</i>	12	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0
<i>Chrysopsis spp</i>	0	0	0	0	0	0	0	0
<i>Ochromonas nannos</i>	0	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0
Unknown Chrysophyte	0	0	0	0	0	0	0	0
BACILLARIOPHYCEAE:								
<i>Cocconeis diminuta</i>	0	0	0	0	0	0	0	0
<i>spp</i>	0	0	0	0	0	0	0	0
<i>Cyclotella spp</i>	12	18	18	0	0	0	0	0
<i>Fragilaria spp</i>	0	0	0	0	0	0	0	0
<i>Gyrosigma spp</i>	0	0	0	0	0	0	0	0

TABLE 8 --cont.

	ALEXAND va	STATIONS						POH
		ROS	HAT	MHL	HAL	IND	QNT	
<i>Meiosira granulata</i> <i>granulata</i> var <i>angustissima</i>	0	0	0	0	0	0	0	0
<i>islandica</i>	0	0	0	0	0	0	0	0
<i>italica</i>	0	0	0	0	0	0	0	0
SPP	43	72	0	5712	1714	0	0	0
<i>Navicula ciosterium</i>	0	0	0	0	0	0	0	0
SPP	12	0	0	0	0	0	0	0
<i>Nitzschia holosatrica</i>	0	0	0	0	0	0	0	0
<i>pala-</i> type	48	0	0	0	0	0	0	0
<i>sigroides</i>	0	0	0	0	0	0	0	0
<i>tryblionella</i> var	0	0	0	0	0	0	0	0
SPP	12	0	0	0	0	0	0	0
<i>Pleurosigma</i> spp	0	0	0	0	0	0	0	0
<i>rhizosolenia</i> spp cyst	0	0	0	0	0	0	0	0
<i>stephanodiscus</i> spp	24	13	71	0	0	0	0	0
<i>Synechra delicatissima</i>	12	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0
Unknown centric diatom	36	107	0	143	0	0	0	0
Unknown pennate diatom	71	0	71	0	0	0	0	0
CYANOPHYCEAE:								
<i>Anabaena affinis</i>	0	0	0	0	0	0	0	0
<i>circinalis</i>	0	0	0	0	0	0	0	0
<i>flos-aquae</i> var <i>intermedia</i>	0	0	0	0	0	0	0	0
† <i>spirooides</i>	0	0	0	0	0	0	0	0
<i>nelicoides</i>	0	0	0	0	0	0	0	0
<i>planctonica</i>	0	0	0	0	0	0	0	0
<i>spirooides</i> var <i>crassa</i>	0	0	0	0	0	0	0	0
<i>spirooides</i> var <i>minor</i>	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0
<i>Aphanocapsa</i> spp	9420	0	0	2856	15424	0	0	29844
<i>Aphanothrix</i> <i>nudulans</i>	295	0	0	0	0	0	0	0
<i>nitidum</i>	0	0	0	0	0	0	0	0
<i>Apahnazomenon</i> <i>flos-aquae</i>	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0
<i>Chroococcus dispersus</i>	0	0	0	0	7855	0	0	0
<i>dispersus</i> var <i>minor</i>	475	1785	2140	0	0	0	0	0
<i>limneticus</i>	0	0	0	0	0	0	0	0
<i>minutus</i>	96	72	572	2284	1428	572	0	0
<i>planktonicus</i>	0	0	0	0	0	0	0	0
<i>Gloecapsa rupestris</i>	0	0	0	0	0	0	0	0
<i>Merismopedia tenuissima</i>	0	0	0	2288	0	0	0	0
<i>Microcystis aeruginosa</i>	55750	642600	1.51E6	8.88E6	3.69E6	5.67E6	3.00E7	0
<i>incerta</i>	892	0	0	0	0	0	0	0
<i>Oscillatoria articulata</i>	0	0	0	0	0	0	0	0
SPP	0	0	0	0	0	0	0	0
<i>Phormidium mucicola</i>	71	286	428	0	0	0	0	1178
SPP	0	0	0	286	428	0	0	0
<i>Pseudoanabaena</i> spp	0	0	0	0	0	0	0	0
<i>Raphidiopsis curvata</i>	0	0	0	0	0	0	0	0

TABLE 8 --cont.

OCTOBER 14, 1953	ALEXANDRA	STATIONS						POH
		ROS	HAT	MHL	HAL	IND	QNT	
<i>Rhabdodiscarina</i> spp	0	0	0	0	0	0	0	
<i>Rhabdodiscarina princeps</i>	0	0	0	0	0	0	0	
spp	0	18	71	0	0	0	0	
Unknown filament	12	0	0	0	0	0	0	
CRYPTOPHYCEAE:								
<i>Chrysomonas amphioxea</i>	0	0	0	0	0	0	0	
<i>caroliniana</i>	33	18	0	0	0	0	0	
<i>minuta</i> v	95	0	0	0	0	0	0	
<i>Cryptomonas acuta</i>	0	0	0	0	0	0	0	
<i>caudata</i>	0	0	0	0	0	0	0	
<i>erosa</i> var <i>reflexa</i>	59	0	0	0	0	0	0	
<i>marsionii</i>	0	0	0	0	0	0	0	
<i>phascolus</i>	12	0	0	0	0	0	0	
<i>pusilla</i>	59	18	0	0	0	0	0	
<i>psuedocobaltica</i>	0	0	0	0	0	0	0	
<i>pyrenoidifera</i>	0	0	0	0	0	0	0	
<i>salina</i>	0	0	0	0	0	0	0	
<i>tenuis</i>	12	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	
<i>Haemiselmis virescens</i>	0	0	0	0	0	0	0	
EUGLENOPHYCEAE:								
<i>Euglenes</i> spp	0	0	0	0	0	0	0	
<i>Eutreptia vividus</i>	0	0	0	0	0	0	0	
<i>Phebus limmermanni</i>	0	0	0	0	0	0	0	
<i>Trichopteran</i>	0	0	0	0	0	0	0	
<i>tortus</i>	0	0	0	0	0	0	0	
<i>Trachnella monas</i> spp	0	0	0	0	0	0	0	
SINOPHYCEAE:								
<i>Glenodinium</i> spp	0	0	0	0	0	0	0	
<i>Lyngbydinium</i> spp	0	0	0	0	0	0	0	
<i>Syrocindinium estuarinum</i>	0	0	0	0	0	0	0	
<i>pallucidum</i>	0	0	0	0	0	0	0	
spp	0	0	0	0	0	0	0	
<i>Memidinium</i> spp	0	0	0	0	0	0	0	
<i>Peridinium cinctum</i>	0	0	0	0	0	0	0	
<i>pusillum</i>	0	0	0	0	0	0	0	
Unknown dinophyceae	0	0	0	0	0	0	0	
PRASINOPHYCEAE:								
<i>Pyramimonas micron</i>	0	0	0	0	0	0	0	
<i>plurioculata</i>	0	0	0	0	0	0	0	
FLAGELLATES:								
Unidentified flagellate	24	214	714	143	0	0	0	

TABLE 8 --cont.

	ALEXAND VA	ROS	HAT	MHL	HAL	STATIONS		POH
						IND	QNT	
micro flagellate								
UNKNOWN:								
cells	48	0	0	0	0	0	0	0
spore	0	0	0	0	0	0	0	0
SUBTOTALS:								
CHLOROPHYCEAE	1481	1054	1856	714	143	0	0	393
CHARYSOPHYCEAE	12	18	0	0	0	0	0	0
BACILLARIOPHYCEAE	275	233	142	5712	1857	0	143	0
CYANOPHYCEAE	878	67937	645454	1.52E6	8.89E6	3.71E6	5.67E6	3.03E6
CRYPTOPHYCEAE	532	36	0	0	0	0	0	0
EUGLENOPHYCEAE	0	0	0	0	0	0	0	0
DINOPHYCEAE	0	0	0	0	0	0	0	0
PRASINOPHYCEAE	0	0	0	0	0	0	0	0
FLAGELLATES	24	214	214	714	143	0	0	0
UNKNOWN	4.8	0	0	0	0	0	0	0
TOTALS (CELLS/ML)								
	3050	69492	647666	1.53E6	8.89E6	3.71E6	5.67E6	3.03E6

TABLE 8 --cont.

		STATIONS				
		MHL	HAL	IND	QNT	DOUG
OCTOBER 27, 1963						
CHLOROPHYCEAE:						
<i>Ankistrodesmus convolutus</i>						
<i>falcatus</i>						
<i>nannostelene</i>						
spp						
<i>Botryococcus</i> spp						
<i>Carteria</i> spp						
<i>Chaetosphaeridium</i>						
<i>Characium limneticum</i>						
<i>Chlamydomonas</i> spp						
<i>Chlorella-like</i> spp						
<i>Chlorella ellipsoidea</i>						
spp						
<i>Chlorogonium</i> spp						
<i>Closteriopsis longissima</i>						
<i>Closterium</i> spp						
<i>Codatella quadriseti</i>						
<i>Coelastrum camorum</i>						
spp A						
spp à						
<i>Coelosphaerium naegelianum</i>						
<i>Cosmarium</i> spp						
<i>Crucigenia crucifera</i>						
<i>divergens</i>						
<i>quadrata</i>						
<i>rectangularis</i>						
<i>tetrapedia</i>						
<i>Dictyosphaerium ahnerbergianum</i>						
<i>Zinobryon davaricum</i>						
<i>Eudorina elegans</i>						
<i>Francea droescheri</i>						
<i>ovalis</i>						
<i>Gloeocystis</i> spp						
<i>Golenkinia radiatum</i>						
spp						
<i>Somphosphaeria</i> spp						
<i>Gonium pectorale</i>						
<i>sociale</i>						
<i>Kirchneriella lunaria</i>						
spp						
<i>Lagerheimia subsalsa</i>						
<i>subsalsa</i> var						
<i>Miractinium pusillum</i>						
<i>quadrisetum</i>						
<i>Oocystis pusilla</i>						
spp colony						
<i>Pandorina morum</i>						
<i>Pediastrum boryanum</i>						
<i>duplex</i>						

TABLE 8 --cont.

	STATIONS				
	R.O.S	M.H.L	H.A.L	I.N.D	Q.N.T
OCTOBER 27/1963					
<i>integrum</i>	0	0	0	0	0
<i>simplex</i>	0	0	0	0	0
<i>var duodenarium</i>	0	0	0	0	0
<i>tetras</i>	0	0	0	0	0
<i>Polycladon umbrinus</i>	0	0	0	0	0
<i>Pseudotetraedron neglectum</i>	0	0	0	0	0
<i>Scenedesmus abundans</i> V	0	0	0	0	0
<i>armatus</i>	0	0	0	0	0
<i>dicaudatus</i> var <i>alternans</i>	0	142	280	0	0
<i>bijuga</i>	125	0	0	0	0
<i>canticulatus</i>	0	0	0	0	0
<i>dimorphus</i>	0	0	0	0	0
<i>intermedius</i>	0	0	0	0	0
<i>quadricauda</i>	254	72	0	0	0
spp	0	0	0	0	0
<i>Schroederia setigera</i>	0	0	0	0	0
<i>Seienastrum westii</i>	0	0	0	0	0
spp	0	0	0	0	0
<i>Spermatoceros exultans</i>	16	63	0	0	0
<i>Staurastrum</i> spp	0	0	0	0	0
<i>Tetraedron caudatum</i>	0	0	0	0	0
<i>minimum</i>	16	0	0	0	0
<i>muticum</i>	0	0	0	0	0
<i>pentadricum</i>	0	0	0	0	0
<i>regulare</i>	0	0	0	0	0
<i>trigonum</i>	0	0	0	0	0
spp	0	0	0	0	0
<i>Tetrastrum elegans</i>	252	0	0	0	0
<i>staurogeniforme</i>	0	0	0	0	0
<i>Trepararia triappendiculata</i>	0	0	0	0	0
Unknown <i>Pracotaceae</i>	0	0	0	0	0
Unknown Green colony	0	0	0	0	0
Unknown Green cell	16	0	0	0	0
Zoospore	0	0	0	0	0
CHRYOSOPHYCEAE:					
<i>Chromulina microplankton</i>	0	16	0	0	0
spp	0	71	0	0	0
<i>Chrysopsis</i> spp	0	0	0	0	0
<i>Uchromonas nannos</i>	0	0	0	0	0
spp	0	0	0	0	0
Unknown Chrysophyte	0	0	0	0	0
ACILLARIOPHYCEAE:					
<i>Coccconeis diminuta</i>	0	0	0	0	0
spp	0	0	0	0	0
<i>Cyclotella</i> spp	0	0	0	0	0
<i>Fragilaria</i> spp	0	0	0	0	0
<i>Gyrosigma</i> spp	0	0	0	0	0
<i>Meiosira granulata</i>	0	0	0	0	0

TABLE 8 --cont.

	STATIONS				
	MHL	HAL	IND	QNT	DOUG
<i>Ceratium</i> 27,1953					
<i>granulata</i> var. <i>angustissima</i>	ROS	0	0	0	0
<i>islandica</i>	0	0	0	0	0
<i>italica</i>	0	0	0	0	0
spp	0	0	0	0	0
<i>Navicula closterium</i>	0	0	0	0	356
spp	0	0	0	0	0
<i>Nitzschia nolitatica</i>	0	0	0	0	0
peirae-type	0	0	0	0	0
<i>Sigmaoides</i>	0	0	0	0	0
<i>tryvoniella</i> var	0	0	0	0	0
spp	0	0	0	0	0
<i>Pleurosigma</i> spp	0	0	0	0	0
<i>Rhizosolenia</i> spp cyst	0	0	0	0	0
<i>Stephanodiscus</i> spp	16	32	250	571	0
<i>Synechidium</i> <i>delicatissima</i>	0	0	0	0	0
spp	0	0	0	0	0
Unknown centric diatom	79	43	36	0	0
Unknown pennate diatom	32	16	0	0	0
<i>CYANOPHYCEAE:</i>					
<i>Anabaena efformis</i>	0	0	0	0	0
<i>Circinellis</i>	0	0	0	0	0
<i>flos-aquae</i> var. <i>intermedia</i>	0	0	0	0	0
† <i>Spiroloides</i>	0	0	0	0	0
<i>Neurocoleus</i>	0	0	0	0	0
<i>planctonica</i>	0	0	0	0	0
<i>Sphaerotilus</i> var. <i>crassa</i>	0	0	0	0	0
<i>Spiroloides</i> var. <i>minor</i>	0	0	0	0	0
spp	0	0	0	0	0
<i>Aphananochloros</i> spp	0	0	0	0	0
<i>Aphanothecum nidulans</i>	0	0	0	0	0
<i>niticum</i>	0	0	0	0	0
<i>Aphananochloron flos-aquae</i>	0	0	0	0	0
spp	0	0	0	0	0
<i>Chroococcus dispersus</i>	30	0	1785	0	1070
<i>dispersus</i> var. <i>minor</i>	315	0	2500	0	0
<i>limneticus</i>	0	0	0	0	0
<i>minutus</i>	32	64	642	286	428
<i>planktonicus</i>	0	0	0	0	0
<i>Gloeocapsa rupestris</i>	0	0	0	0	0
<i>Marismopedia tenuissima</i>	7616	0	2283	0	0
<i>Microcystis aeruginosa</i>	0	2775	201700	1.18E6	5.12E6
<i>incerta</i>	0	0	0	0	0
<i>Oscillatoria articulata</i>	0	0	0	0	0
spp	79	0	0	0	0
<i>Phormidium mucicola</i>	0	16	71	143	71
spp	0	0	0	0	0
<i>Pseudocahnella</i> spp	0	0	0	0	0
<i>Raphidiopsis curvata</i>	111	0	857	0	71
<i>Rhabdodermia</i> spp	0	0	0	0	0

TABLE 6 --cont.

	STATIONS			Doug
	M.H.L.	HAL	IND	QNT
OCTOBER 27, 1963	ROS	0	0	0
Spirulina princeps	16	0	0	0
spp	0	0	0	0
Unknown filament	0	0	0	0
CRYPTOPHYCEAE:				
<i>Chroomonas amphioxea</i>	0	0	0	0
<i>caroliniana</i>	0	0	0	0
<i>minuta</i> v	0	0	0	0
<i>Cryptomonas acuta</i>	0	0	0	0
<i>caudata</i>	0	0	0	0
<i>erosa</i>	16	0	0	0
<i>erosa</i> var <i>reflexa</i>	0	0	0	0
<i>marssonii</i>	0	0	0	0
<i>phascolius</i>	0	0	0	0
<i>pusilla</i>	48	0	0	0
<i>pseudobalitica</i>	0	0	0	0
<i>pyrenoidea</i>	0	0	0	0
<i>salina</i>	0	0	0	0
<i>tenuis</i>	0	0	0	0
spp	16	0	0	0
<i>Hemiselmis virescens</i>	0	0	0	0
EUGLENOPHYCEAE:				
<i>Euglena</i> spp	0	0	0	0
<i>Eutreptia vividus</i>	0	0	0	0
<i>Phacus limmermanii</i>	0	0	0	0
<i>triquerter</i>	0	0	0	0
<i>torlus</i>	0	0	0	0
<i>Trachelomonas</i> spp	0	0	0	0
DINOPHYCEAE:				
<i>Selenodinium</i> spp	0	0	0	0
<i>Gymnodinium</i> spp	0	0	0	0
<i>Gyrodinium</i> estuarium	0	0	0	0
<i>pellucidum</i>	0	0	0	0
spp	0	0	0	0
<i>Hemidinium</i> spp	0	0	0	0
<i>Peridinium cinctum</i>	0	0	0	0
<i>pusillum</i>	0	0	0	0
spp	0	0	0	0
<i>Procentrum minimum</i>	0	0	0	0
Unknown Dinophyceae	0	0	0	0
PRASINOPHYCEAE:				
<i>Pyramimonas micron</i>	0	0	0	0
<i>plurioculata</i>	0	0	0	0
FLAGELLATES:				
Unidentified flagellate	396	95	143	214
micro flagellate	0	0	0	0
			71	143
			0	0

TABLE 8 --cont.

		ROS	MHL	HAL	IND	QNT	DOUG
UNKNOWN:							
cells		0	16	0	0	0	0
spore		0	0	0	0	0	0
SUBTOTALS:							
CHLOROPHYCEAE		620	523	392	1071	0	85821
CHRYSOPOHYCEAE		0	15	71	0	0	0
SACILLARIOPHYCEAE		175	112	558	571	856	71
CYANOPHYCEAE		8133	2966	208915	1.18E6	5.12E6	2.12E6
CRYPTOPHYCEAE		0	32	36	71	71	0
EUGLENOPHYCEAE		0	3	0	0	0	0
DINOPHYCEAE		0	0	0	71	0	0
PRASINOPHYCEAE		0	0	0	0	0	0
FLAGELLATES		396	95	143	214	71	143
UNKNOWN		0	16	36	0	0	0
TOTALS(CELLS/ML)							
		9409	3760	209951	1.18E6	5.12E6	2.21E6

TABLE 8 --cont.

NOVEMBER 1903	STATIONS	MHL	HAL	IND	QNT	QNT2
	UNICILIATES:					
	<i>Ankistrodesmus convolutus</i>				0	
	<i>falcatus</i>				0	
	<i>nannosellana</i>				79	
	<i>spp</i>				0	
	<i>Isotrycococcus spp</i>				0	
	<i>Isartalis spp</i>				0	
	<i>Chaetospnmaridium</i>				0	
	<i>Characium limneticum</i>				0	
	<i>Chlamydomenes spp</i>				0	
	<i>Uniorella-like spp</i>				0	
	<i>Uniorella ellipsoidea</i>				0	
	<i>spp</i>				0	
	<i>Uniorogonium spp</i>				0	
	<i>Ciosteriosis longissima</i>				0	
	<i>Closterium spp</i>				0	
	<i>Coateilia quadriseti</i>				0	
	<i>Coelastrum camoriun</i>				0	
	<i>spp A</i>				0	
	<i>spp B</i>				0	
	<i>Coelosphaerium nageleianum</i>				0	
	<i>Cosmarium spp</i>				0	
	<i>Crucigenia crucifera</i>				0	
	<i>divergens</i>				0	
	<i>quadrate</i>				0	
	<i>rectangularis</i>				0	
	<i>tetrapedia</i>				0	
	<i>Dictyosonamerium ehrebergianum</i>				0	
	<i>Dinobryon bavaricum</i>				0	
	<i>Eudorina elegans</i>				0	
	<i>Franceia droescheri</i>				0	
	<i>ovalis</i>				0	
	<i>Gloecystis spp</i>				0	
	<i>Solenkinia radiatum</i>				0	
	<i>spp</i>				0	
	<i>Somphosphaeria spp</i>				0	
	<i>Zonium pectorale</i>				0	
	<i>socialis</i>				0	
	<i>Kirchneriella lunaris</i>				0	
	<i>spp</i>				0	
	<i>Lagerheimia subsalsa</i>				0	
	<i>subsalsa var</i>				0	
	<i>Miractinium pusillum</i>				0	
	<i>Quadrisetum</i>				0	
	<i>Oocystis pusilla</i>				0	
	<i>spp colony</i>				0	
	<i>spp</i>				0	
	<i>Pandorina morum</i>				0	
	<i>Pediastrum boryanum</i>				0	

TABLE 8 --cont.

NOVEMBER 7, 1953	STATIONS			QNT	IND	QNT	IND	QNT	IND
	MHL	HAL	IND						
<i>duplex</i>	0	0	0	0	0	0	0	0	0
<i>integrum</i>	0	0	0	0	0	0	0	0	0
<i>similax</i>	0	0	0	0	0	0	0	0	0
<i>similax var duodenarium</i>	0	0	0	0	0	0	0	0	0
<i>tetrae</i>	0	0	0	0	0	0	0	0	0
<i>Polycladon umbrinus</i>	0	0	0	0	0	0	0	0	0
<i>Pseudotetradron neglectum</i>	0	0	0	0	0	0	0	0	0
<i>Scenedesmus abundans</i> v	0	0	0	0	0	0	0	0	0
<i>armatus</i>	0	0	0	0	0	0	0	0	0
<i>cicaudatus</i> var <i>alternans</i>	62	126	0	0	0	0	0	0	0
<i>cajuge</i>	0	0	0	0	0	0	0	0	0
<i>denticulatus</i>	0	0	0	0	0	0	0	0	0
<i>dimorphus</i>	0	0	0	0	0	0	0	0	0
<i>intermedius</i>	0	0	0	0	0	0	0	0	0
<i>quadricauda</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
<i>Schnoodleria setigera</i>	0	0	0	0	0	0	0	0	0
<i>Seienastrum westii</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
<i>Sphaerotilosis exultans</i>	110	79	0	0	0	0	0	0	0
<i>Staurastrum</i> spp	0	0	0	0	0	0	0	0	0
<i>Tetradron caudatum</i>	0	0	0	0	0	0	0	0	0
<i>minimum</i>	0	0	0	0	0	0	0	0	0
<i>muticum</i>	0	0	0	0	0	0	0	0	0
<i>pentadricum</i>	0	0	0	0	0	0	0	0	0
<i>rajahae</i>	0	0	0	0	0	0	0	0	0
<i>trigonum</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
<i>Tetrastrum elegans</i>	0	0	0	0	0	0	0	0	0
<i>staurogeniforme</i>	0	0	0	0	0	0	0	0	0
<i>Treloaria triappendiculata</i>	0	0	0	0	0	0	0	0	0
Unknown <i>Phacotaceae</i>	0	0	0	0	0	0	0	0	0
Unknown green colony	0	0	0	0	0	0	0	0	0
Unknown green cell	0	0	0	0	0	0	0	0	0
Zooplank.	0	0	0	0	0	0	0	0	0
CHROMOPHYCEAE:									
<i>Chromulina microplankton</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
<i>Chrysospalis</i> spp	0	0	0	0	0	0	0	0	0
<i>Uchromonas nannos</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
Unknown Chrysophyte	0	0	0	0	0	0	0	0	0
DICILLARIOPHYCEAE:									
<i>Coccconeis diminuta</i>	0	0	0	0	0	0	0	0	0
spp	0	0	0	0	0	0	0	0	0
<i>Cyclotilia</i> spp	0	0	0	0	0	0	0	0	0
<i>Fragilaria</i> spp	0	0	0	0	0	0	0	0	0
<i>Gyrosigma</i> spp	0	0	0	0	0	0	0	0	0

TABLE 8 --cont.

		STATIONS				
		MHL	HAL	IND	QNT	QNT2
NOVEMBER 9/1963	ROS	0	0	0	0	0
<i>Meiosira granulata</i>		0	0	0	0	0
<i>granulata</i> var <i>angustissima</i>		0	0	0	0	0
<i>islandica</i>		0	0	0	0	0
<i>italica</i>		0	0	0	0	0
spp		0	0	0	0	0
<i>Navicula closterium</i>		472	942	0	0	0
spp		0	0	0	0	0
<i>Nitzschia nalsatica</i>		0	0	0	0	0
<i>palea</i> -type	16	16	0	0	0	0
<i>sigmoides</i>	0	0	0	0	0	0
<i>tryblionella</i> var		0	0	0	0	0
spp		0	0	0	0	0
<i>Pleurosigma spp</i>		0	0	0	0	0
<i>Rhizosolenia spp cyst</i>		0	0	0	0	0
<i>Stephanodiscus spp</i>	47	16	1099	707	157	0
<i>Synechra delicatissima</i>	0	0	0	0	0	0
spp	0	0	0	0	0	0
Unknown centric diatom	16	16	1178	79	0	0
Unknown pennate diatom	16	31	0	0	0	0
CYANOPHYCEAE:		0	0	0	0	0
<i>Anabaena affinis</i>		0	0	0	0	0
<i>circinalis</i>		0	0	0	0	0
<i>flos-aquae</i> var <i>intermedia</i>		0	0	0	0	0
f <i>spiroides</i>		0	0	0	0	0
<i>helicoidea</i>		0	0	0	0	0
<i>planctonica</i>		0	0	0	0	0
<i>spiroides</i> var <i>crassa</i>		0	0	0	0	0
<i>spiroides</i> var <i>minor</i>		0	0	0	0	0
spp		0	0	0	0	0
<i>Aphanocapsa spp</i>		0	0	0	0	0
<i>Aponanthe nidulans</i>		0	0	0	0	0
<i>nitidum</i>		0	0	0	0	0
<i>Aphanozomenon flos-aquae</i>		0	0	0	0	0
spp		0	0	0	0	0
<i>Chroococcus dispersus</i>		3140	395	1965	0	0
<i>dispersus</i> var <i>minor</i>		0	0	0	0	0
<i>limneticus</i>	0	0	0	0	0	0
<i>minutus</i>	62	32	314	158	314	0
<i>plantonicus</i>	0	0	0	0	0	0
<i>Gloecapsa rupestris</i>	0	31	0	0	0	0
<i>Merismopedia tenuissima</i>	0	0	0	0	0	0
<i>Microcystis aeruginosa</i>	0	0	0	0	0	0
<i>incerta</i>	0	0	0	0	0	0
<i>Oscillatoria articulata</i>	0	0	0	0	0	0
spp	0	0	0	0	0	0
<i>Phormidium mucicola</i>	16	0	0	79	0	0
spp	0	0	0	0	0	0
<i>Pseudoanabaena spp</i>	0	16	0	0	0	0
<i>Raphidiopsis curvata</i>	0	0	0	0	0	0

TABLE 8 --cont.

NOVEMBER 1953	STATIONS				QNT	
	MHL	HAL	IND	QNT		
<i>Xanthidium</i> spp	0	0	0	0	0	
<i>Spirulina princeps</i>	0	0	0	0	0	
spp	0	0	0	0	0	
Unknown filament	0	0	0	0	0	
CRYPTOPHYCEAE:						
<i>Chroococcus amphioxea</i>	0	0	0	0	0	
<i>caroliniana</i>	0	0	0	0	0	
<i>minuta</i> v	0	0	0	0	0	
<i>Cryptomonas acuta</i>	0	0	0	0	0	
<i>caudata</i>	0	0	0	0	0	
<i>erosa</i> var <i>reflexa</i>	72	0	0	0	0	
<i>marsionii</i>	0	0	0	0	0	
<i>phaseolus</i>	0	0	0	0	0	
<i>pusilla</i>	16	0	0	0	0	
<i>psuedobaitica</i>	0	0	0	0	0	
<i>pyranoidifera</i>	0	0	0	0	0	
<i>salina</i>	0	0	0	0	0	
<i>tenuis</i>	0	0	0	0	0	
spp	0	0	0	0	0	
<i>Nemiselinis virescens</i>	72	0	0	0	0	
EUGLENOPHYCEAE:						
<i>Euglena</i> spp	0	0	0	0	0	
<i>eurepia vividus</i>	0	0	0	0	0	
<i>Phacus limmermani</i>	0	0	0	0	0	
<i>triquerter</i>	0	0	0	0	0	
<i>tortus</i>	0	0	0	0	0	
<i>Trachelomonas</i> spp	0	0	0	0	0	
DINOPHYCEAE:						
<i>Glenodinium</i> spp	0	0	0	0	0	
<i>Symnodinium</i> spp	0	0	0	0	0	
<i>Gyrodinium</i> estuarinum	0	0	0	0	0	
<i>pelucidum</i>	0	0	0	0	0	
spp	0	0	0	0	0	
<i>Heminidium</i> spp	0	0	0	0	0	
<i>Peridinium cinctum</i>	0	0	0	0	0	
<i>pustulum</i>	0	0	0	0	0	
spp	0	0	0	0	0	
<i>Prorocentrum minimum</i>	0	0	0	0	0	
Unknown Dinophyceae	0	0	0	0	0	
PRASINOPHYCEAE:						
<i>Pyramimonas micron</i>	0	0	0	0	0	
<i>plurioculata</i>	0	0	0	0	0	
FLAGELLATES:						
Unidentified flagellate	47	79	593	314	79	0

TABLE 8 --cont.

		STATIONS			
		ROS	MHL	IND	QNT
		0	0	0	0
NOVEMBER 9, 1963					
micro flagellate					
UNKNOWN:					
cells		0	0	0	0
spore		0	0	0	0
SUBTOTALS:					
CHLOROPHYCEAE		0	456	707	79
CHRYOSOPHYCEAE		0	0	0	0
BACILLARIOPHYCEAE		95	551	3376	865
CYANOPHYCEAE		78	2829	400029	23139
CRYPTOPHYCEAE		0	63	315	0
EUGLENOPHYCEAE		0	0	0	0
DINOPHYCEAE		0	0	0	0
PRASINOPHYCEAE		0	0	0	0
FLAGELLATES		47	79	393	314
UNKNOWN		0	0	0	79
TOTALS(CELLS/ML)		220	3973	404820	624555 1.70E6 8.25E6

NOTE: QNT2 was a point sample taken at the Quantico cross-section, 1.5 feet from the bottom, at vertical number two.

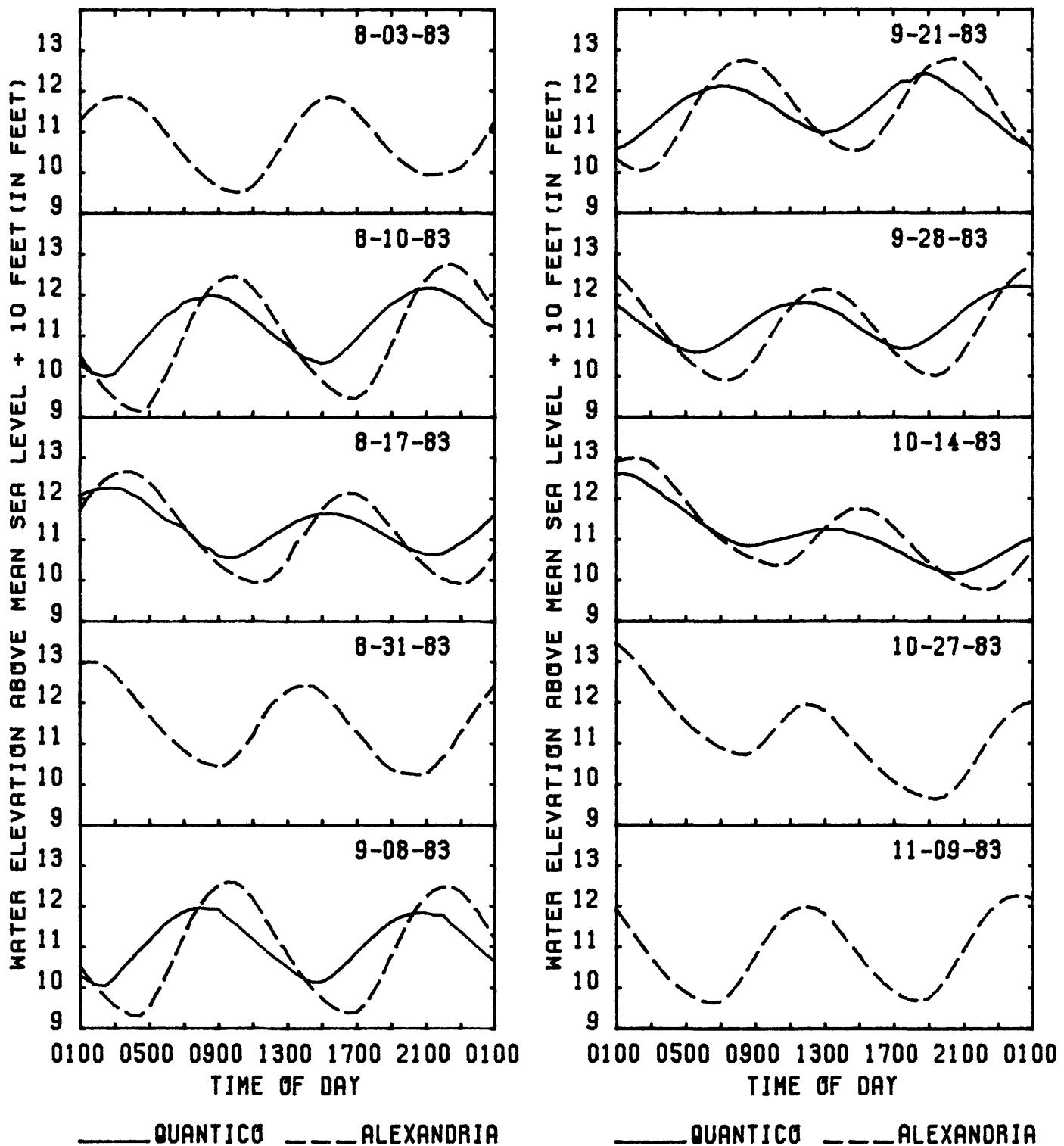


Figure 4.--Tide stage measured at Alexandria, Va. and Quantico, Va. for sampling days.

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